

HOME AUTOMATION SYSTEM

An Internship Work submitted to



VISVESVARAYA TECHNOLOGICAL UNIVERSITY

in partial fulfilment of the requirements
for the award of degree of

BACHELOR OF ENGINEERING
in
ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

ARJUN A
1KG17EE002

for
Internship carried out
at
INDIAN TECH-KEYS

Krishnamurti Nagar, New Baiyyappanahalli Extension,
Bengaluru, Karnataka 560038

Internal Guide

Mrs. Tejaswini G V
Assistant Professor
Department of EEE

External Guide

Mr. Kotresh Mundrugi
Director
Indian Techkeys

K S School of Engineering and Management



Department of Electrical and Electronics Engineering
K.S. School of Engineering and Management
No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109
2021-22



KSSEM

**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

CERTIFICATE

This is to certify that the internship work entitled **Home automation system** is a bonafide work carried out by **ARJUN A(1KG17EE002)** in partial fulfillment for the award of **Bachelor of Engineering in Electrical and Electronics Engineering** of **Visvesvaraya Technological University, Belagavi**, during the year 2021-22. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to **Internship (18EEI85)** prescribed for the degree.

Internal Guide

Head of the Department

Principal/Director


Mrs. Tejaswini G V
Assistant Professor
Dept. of EEE

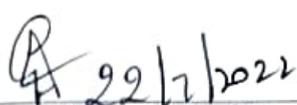

Dr. Arun Kumar M
Associate Professor &
HoD Dept. of EEE

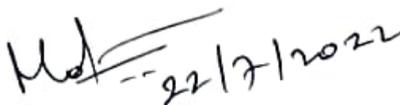

Dr. K. Rama Narasimha
KSSEM

Associate Professor
Head of the Department
Department of Electrical & Electronics Engineering
K S School of Engineering and Management
Bengaluru-560 109

Dr. K. RAMA NARASIMHA
Principal/Director
Bengaluru - 560 109

Examiners


Name and Signature of Examiner-1


Name and Signature of Examiner-2



**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

DECLARATION

I **ARJUN A(1KG17EE002)**, the student of **BE VIII Semester (Electrical and Electronics Engineering)** declare that the internship report entitled **“Home automation system”** is carried out by me at **Indian Tech-Keys** as a partial fulfillment of academic requirement of degree under **Visvesvaraya Technological University**. The content in the report are original and are free from plagiarism and other academic dishonesty and are not submitted to any other University either partially or wholly for the award of any other degree.

**ARJUN A
1KG17EE002**

Date: 29/6/2022
Place: Bengaluru

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in
ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

DHEENA P
1KG18EE003

for

Internship carried out

at

INDIAN TECH-KEYS

Krishnamurti Nagar, New Baiyyappanahalli Extension,
Bengaluru, Karnataka 560038

Internal Guide

Mrs. Tejaswini G V
Assistant Professor
Department of EEE

External Guide

Mr. Kotresh Mundrugi
Director
Indian Techkeys

K S School of Engineering and Management



Department of Electrical and Electronics Engineering
K.S. School of Engineering and Management
No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109
2021-22



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

CERTIFICATE

This is to certify that the internship work entitled **Home automation system** is a bonafide work carried out by **DHEENA P(1KG18EE003)** in partial fulfillment for the award of **Bachelor of Engineering in Electrical and Electronics Engineering** of **Visvesvaraya Technological University, Belagavi**, during the year 2021-22. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to **Internship (18EEI85)** prescribed for the degree.

Internal Guide


Mrs. Tejaswini G V
Assistant Professor
Dept. of EEE

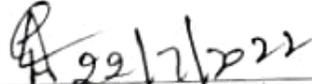
Head of the Department


Dr. Arun Kumar M
Associate Professor &
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Associate Professor
Head of the Department
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Principal/Director


Dr. K. Rama Narasimha
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Principal/Director
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Bengaluru - 560 109

Examiners


22/7/2022
Name and Signature of Examiner-1


22/7/2022
Name and Signature of Examiner-2



KSSEM
K.S. School of Engineering and Management

**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

DECLARATION

I **DHEENA P(1KG18EE003)**, the student of **BE VIII Semester (Electrical and Electronics Engineering)** declare that the internship report entitled "**Home automation system**" is carried out by me at **Indian Tech-Keys** as a partial fulfillment of academic requirement of degree under **Visvesvaraya Technological University**. The content in the report is original and are free from plagiarism and other academic dishonesty and are not submitted to any other University either partially or wholly for the award of any other degree.

P. Dheena

**DHEENA P
1KG18EE003**

Date: *24/6/22*
Place: Bengaluru

Embedded System Design and Development

An Internship Work submitted to



VISVESVARAYA TECHNOLOGICAL UNIVERSITY

in partial fulfilment of the requirements
for the award of degree of

BACHELOR OF ENGINEERING
in
ELECTRICAL AND ELECTRONICS ENGINEERING

Submitted by

JAYAWANTH B
1KG18EE005

for

Internship carried out
at

Indian Tech-Keys

#11, R M N Towers, Near SVR Metro Station, Bengaluru-560038

Internal Guide

Mrs. Hemapriya M
Asst. Professor, EEE
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External Guide

Kotresh M
Director
Indian Tech-Keys



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS
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CERTIFICATE

This is to certify that the internship work entitled **Embedded System Design and Development** is a bonafide work carried out by **Jayawanth B 1KG18EE005** in partial fulfillment for the award of **Bachelor of Engineering in Electrical and Electronics Engineering** of **Visvesvaraya Technological University, Belagavi**, during the year 2021-22. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to **Internship (18EEI85)** prescribed for the degree.

Guide

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Assistant Professor
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Head of the Department

Dr. Arun Kumar M
Head of the Department
Dept. of EEE

Principal/Director

**Dr. K. Rama
Narasimha**
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Examiners

Associate Professor
Head of the Department
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Dr. K. RAMA NARASIMHA
Principal/Director
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Bengaluru - 560 109

Name and Signature of Examiner-1

Name and Signature of Examiner-2



**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
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DECLARATION

I **Jayawanth B 1KG18EE005**, the student of **BE VIII Semester (Electrical and Electronics Engineering)** declare that the internship report entitled “**Embedded System Design and Development**” is carried out by me at **Indian Tech-Keys** as a partial fulfillment of academic requirement of degree under **Visvesvaraya Technological University**. The content in the report are original and are free from plagiarism and other academic dishonesty and are not submitted to any other University either partially or wholly for the award of any other degree.

**Jayawanth B
1KG18EE005**

Date: 29-06-2022

Place: Bengaluru

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Submitted by

NIKITHA P
1KG18EE009

for

Internship carried out
at

Indian Tech-Keys

#11, R M N Towers, Near SVR Metro Station, Bengaluru-560038

Internal Guide

Mrs. Manjula B G
Associate Professor, EEE
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This is to certify that the internship work entitled **Embedded System Design and Development** is a bonafide work carried out by **Nikitha P 1KG18EE009** in partial fulfillment for the award of **Bachelor of Engineering in Electrical and Electronics Engineering** of **Visvesvaraya Technological University, Belagavi**, during the year 2021-22. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to **Internship (18EEI85)** prescribed for the degree.

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Dept. of EEE
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Head of the Department
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DECLARATION

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**Nikitha P
1KG18EE009**

Date: 29/06/22

Place: Bengaluru

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Submitted by

SAGAR K
1KG18EE010

for

Internship carried out

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Krishnamurti Nagar, New Baiyyappanahalli Extension,
Bengaluru, Karnataka 560038

Internal Guide

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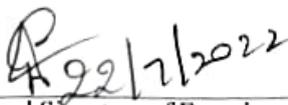
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Dr. K. RAMA NARASIMHA
Principal/Director
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Bengaluru - 560 109

Examiners


Name and Signature of Examiner-1


Name and Signature of Examiner-2

CERTIFICATE



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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Sagar K (1KG18EE010)** student of **K S School of Engineering and Management** has successfully completed Internship at **"ITK Innovation Centre", Bengaluru, KA-India** during the period from **1-09-2021 to 30-09-2021**.

His performance during Internship was excellent in the domain of **Embedded System Design and Development, IoT based mobile application development and python based webpage development**. Project during the Internship was demonstrating his desire to learn and critical thinking towards the problem solving in product development for various applications.

Kotresh Mundrugi

Director

Indian Tech-Keys.



**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

DECLARATION

I **SAGAR K(1KG18EE010)**, the student of **BE VIII Semester (Electrical and Electronics Engineering)** declare that the internship report entitled "**Home automation system**" is carried out by me at **Indian Tech-Keys** as a partial fulfillment of academic requirement of degree under **Visvesvaraya Technological University**. The content in the report is original and are free from plagiarism and other academic dishonesty and are not submitted to any other University either partially or wholly for the award of any other degree.

A handwritten signature in black ink that reads "Sagar K".

**SAGAR K
1KG18EE010**

Date: 29/6/2022
Place: Bengaluru

Embedded System Design and Development

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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for the award of degree of

BACHELOR OF ENGINEERING in **ELECTRICAL AND ELECTRONICS ENGINEERING**

Submitted by

SAI DARSHAN G

1KG18EE011

for

Internship carried out
at

Indian Tech-Keys

#11, R M N Towers, Near SVR Metro Station, Bengaluru-560038

Internal Guide

Mrs. Manjula B G

Associate Professor, EEE

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External Guide

Mr. Kotresh Mundrugi

Director

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No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109
2021-22



KSSEM

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Internal Guide

Mrs. Manjula B.G
Associate Professor
Dept. of EEE

Head of the Department

Dr. Arun Kumar M
Head of the Department &
Associate Professor
Dept. of EEE
Associate Professor
Head of the Department
Department of Electrical & Electronics Engineering
KS School of Engineering and Management
Bengaluru-560 109

Principal/Director

Dr. K. Rama Narasimha
KSSEM
Dr. K. RAMA NARASIMHA
Principal/Director
K S School of Engineering and Management
Bengaluru - 560 109

Examiners

Name and Signature of Examiner-1

Name and Signature of Examiner-2



**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

DECLARATION

I **Sai Darshan G (1KG18EE011)**, the student of **BE VIII Semester (Electrical and Electronics Engineering)** declare that the internship report entitled “**Embedded System Design and Development**” is carried out by me at **Indian Tech-Keys** as a partial fulfillment of academic requirement of degree under **Visvesvaraya Technological University**. The content in the report are original and are free from plagiarism and other academic dishonesty and are not submitted to any other University either partially or wholly for the award of any other degree.

**Sai Darshan G
1KG18EE011**

Date: 29/6/2022
Place: Bengaluru

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Submitted by

SUSHMA UDUPA K S
1KG18EE012

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Krishnamurti Nagar, New Baiyyappanahalli Extension, Bengaluru, Karnataka 560038

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Assistant Professor
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Director
Indian Techkeys

K S School of Engineering and Management



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No. 15, Mallasandra, off Kanakapura Road, Bengaluru-560109
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Sushma
SUSHMA UDUPA K S
1KG18EE012

Date: 29/06/2022
Place: Bengaluru

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Submitted by

VARSHINI K
1KG18EE013

for

Internship carried out
at

Indian Tech-Keys

#11, R M N Towers, Near SVR Metro Station, Bengaluru-560038

Internal Guide

Ms. Manjula B G

Associate Professor, EEE

KSSEM

External Guide

Kotresh M

Director

Indian Tech-Keys



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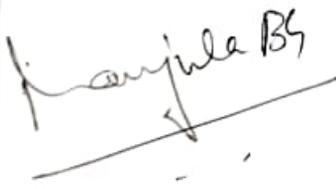


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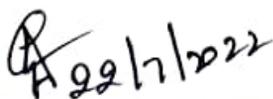
This is to certify that the internship work entitled **Embedded System Design and Development** is a bonafide work carried out by **Varshini K 1KG18EE013** in partial fulfillment for the award of **Bachelor of Engineering in Electrical and Electronics Engineering** of **Visvesvaraya Technological University, Belagavi**, during the year 2021-22. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement with respect to **Internship (18EEI85)** prescribed for the degree.

Guide	Head of the Department	Principal/Director
		
<p>Manjula B G Associate Professor Dept. of EEE</p>	<p>Dr. Arun Kumar M Head of the Department & Associate Professor Dept. of EEE Associate Professor Head of the Department</p>	<p>Dr. K. Rama Narasimha KSSEM Dr. K. RAMA NARASIMHA Principal/Director</p>

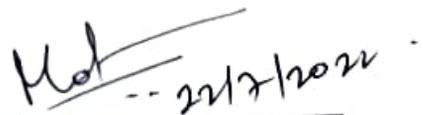
Examiners

Department of Electrical & Electronics Engineering
K S School of Engineering and Management
Bengaluru-560 109

K S School of Engineering and Management
Bengaluru - 560 109


22/7/2022

Name and Signature of Examiner-1


22/7/2022

Name and Signature of Examiner-2



**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT
DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING**

DECLARATION

I **Varshini K 1KG18EE013**, the student of **BE VIII Semester (Electrical and Electronics Engineering)** declare that the internship report entitled “**Embedded System Design and Development**” is carried out by me at **Indian Tech-Keys** as a partial fulfillment of academic requirement of degree under **Visvesvaraya Technological University**. The content in the report are original and are free from plagiarism and other academic dishonesty and are not submitted to any other University either partially or wholly for the award of any other degree.

Varshini.k
**Varshini K
1KG18EE013**

Date: *29/6/2022*
Place: *Bengaluru*



Indian Tech-Keys

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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Dheena P (1KG18EE003)** student of **K S School of Engineering and Management, Bengaluru** has successfully completed Internship at “**ITK Innovation Centre**”, **Bengaluru, KA-India** during the period from 01-09-2021 to 30-09-2021.

His performance during Internship was excellent in the domain of **Embedded System Design and Development, IoT based Mobile Application Development and Python based Web Page Development**. Project during the Internship was demonstrating his desire to learn and critical thinking towards the problem solving in product development for various applications.

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His performance during Internship was excellent in the domain of **Embedded System Design and Development, IoT based Mobile Application Development and Python based Web Page Development**. Project during the Internship was demonstrating his desire to learn and critical thinking towards the problem solving in product development for various applications.

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Her performance during Internship was excellent in the domain of **Embedded System Design and Development, IoT based Mobile Application Development and Python based Web Page Development**. Project during the Internship was demonstrating her desire to learn and critical thinking towards the problem solving in product development for various applications.

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This is to certify that **Mr. Sai Darshan G (1KG18EE011)** student of **K S School of Engineering and Management, Bengaluru** has successfully completed Internship at **"ITK Innovation Centre", Bengaluru, KA-India** during the period from 01-09-2021 to 30-09-2021.

His performance during Internship was excellent in the domain of **Embedded System Design and Development, IoT based Mobile Application Development and Python based Web Page Development**. Project during the Internship was demonstrating his desire to learn and critical thinking towards the problem solving in product development for various applications.

Kotresh Mundrugi

Director

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This is to certify that **Ms. Varshini K (1KG18EE013)** student of **K S School of Engineering and Management, Bengaluru** has successfully completed Internship at “**ITK Innovation Centre**”, **Bengaluru, KA-India** during the period from 01-09-2021 to 30-09-2021.

Her performance during Internship was excellent in the domain of **Embedded System Design and Development, IoT based Mobile Application Development and Python based Web Page Development**. Project during the Internship was demonstrating her desire to learn and critical thinking towards the problem solving in product development for various applications.

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This is to certify that **Ms. Sushma Udupa K S (1KG18EE012)** student of **K S School of Engineering and Management, Bengaluru** has successfully completed Internship at **"ITK Innovation Centre", Bengaluru, KA-India** during the period from 01-09-2021 to 30-09-2021.

Her performance during Internship was excellent in the domain of **Embedded System Design and Development, IoT based Mobile Application Development and Python based Web Page Development**. Project during the Internship was demonstrating her desire to learn and critical thinking towards the problem solving in product development for various applications.



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This is to certify that **Ms. Nirosha (1KG20EE403)** student of **K S School of Engineering and Management, Bengaluru** has successfully completed Internship at “**ITK Innovation Centre**”, **Bengaluru, KA-India** during the period from 01-09-2021 to 30-09-2021.

Her performance during Internship was excellent in the domain of **Embedded System Design and Development, IoT based Mobile Application Development and Python based Web Page Development**. Project during the Internship was demonstrating her desire to learn and critical thinking towards the problem solving in product development for various applications.

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This is to certify that **Mr. Prajwal V (1KG19EE004)** student of **K S School of Engineering and Management, Bengaluru** has successfully completed Internship at **“ITK Innovation Centre”, Bengaluru, KA-India** during the period from 01-09-2021 to 30-09-2021.

His performance during Internship was excellent in the domain of **Embedded System Design and Development, IoT based Mobile Application Development and Python based Web Page Development**. Project during the Internship was demonstrating his desire to learn and critical thinking towards the problem solving in product development for various applications.

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This is to certify that **Mr. Gowtham R (1KG19EE003)** student of **K S School of Engineering and Management, Bengaluru** has successfully completed Internship at “**ITK Innovation Centre**”, Bengaluru, **KA-India** during the period from 01-09-2021 to 30-09-2021.

His performance during Internship was excellent in the domain of **Embedded System Design and Development, IoT based Mobile Application Development and Python based Web Page Development**. Project during the Internship was demonstrating his desire to learn and critical thinking towards the problem solving in product development for various applications.



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This is to certify that **Mr. Sharan G (1KG19EE007)** student of **K S School of Engineering and Management, Bengaluru** has successfully completed Internship at “**ITK Innovation Centre**”, Bengaluru, KA-India during the period from 01-09-2021 to 30-09-2021.

His performance during Internship was excellent in the domain of **Embedded System Design and Development, IoT based Mobile Application Development and Python based Web Page Development**. Project during the Internship was demonstrating his desire to learn and critical thinking towards the problem solving in product development for various applications.



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