

# HEMANT RAJ

Bachelor of Technology  
Electronics and Communication Engineering

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## EXPERIENCE

Intern-Frontend Development

**TopVersity LLP**

📅 12/2021 - 02/2022 📍 Maharashtra, India

- **Fixed** critical **errors** and bugs in the project and **enhanced** the **database structure** that increased the productivity by 8%. Also, created a responsive webpage for the edu-web using HTML and CSS, which is now showcased on the website [[www.topversity.in](http://www.topversity.in)].

Graduate Trainee

**Indian Railways**

- Received training in the signal section under the guidance of a senior sectional engineer.

## VOLUNTEERING

GDSC Lead

**Google Developers Student Club**

- Secured GDSC Lead position after passing test and interview successfully.
- Provided **mentorship to 200+ students** in various domains, such as Google Cloud, TensorFlow, Machine Learning, Career, and more.
- **Organized** various **event** in college and Participated also in various event.

Founding member

**PCE, Purnea Club Association**

- **Deigned Structure** of College **Club** from Scratch with 4 members under the guidance of college faculty.
- Designed Club Logo, Wrote Rules Book for the club, Given Presentations.
- **Assisted 30+ students** with various **issues**, such as **website** development, **funding acquisition**, placement opportunities, membership enrollment, book publication, and social media management.
- Served as a leading member of Tech Club in college.

## ACHIEVEMENTS

- Solved 100+ Data Structures and Algorithms problems on LeetCode.
- Solved 500+ programming questions on HackerRank, earning **4 stars** in C/C++ and 3 stars in Python.
- Participated in various technical events and hackathons, such as Hacktuber, MLH, Kaggle, etc.
- Achieved Elite certificate in DBMS from IIT Kharagpur through NPTEL.

## EDUCATION

B.Tech in Electronics and Communication Engineering

**Purnea College of Engineering, (Gov. of Bihar)**

📅 2020 - 2024

- Knowledge of semiconductor, VLSI Design, Chip Design
- Understanding of Embedded system and microprocessor
- Knowledge of Analog and digital circuits & design methodology

BS Degree in Data Science and Applications

**Indian Institute of Technology, Madras (IITM)**

- Achieved 94% score in Python programming course.
- Developed a strong foundation in Statistics, Probability, Linear Algebra, and Calculus.

## TECH STACK

Python

C/C++

Data Structure

MySQL

Excel

PowerBI

Tableau

Google Firebase

HTML / CSS

Django

Digital & Analog circuits

Microcontrollers

Graphics

Figma

MATLAB

Git/GitHub

AWS

Linux

## PROJECTS

**Market Segmentation Analysis:**

[https://github.com/hemant087/ML\\_Project](https://github.com/hemant087/ML_Project)

- Performed comprehensive market segmentation analysis for a company using clustering algorithms (e.g., k-means) on customer data.
- Identified distinct customer segments based on demographics and purchase behavior using Python (NumPy, pandas, scikit-learn).
- Utilized data visualization libraries (Matplotlib, Seaborn) to present analysis results and deliver actionable insights for targeted marketing strategies.

**Social Media Sentiment Analysis:**

[https://github.com/hemant087/ML\\_Project](https://github.com/hemant087/ML_Project)

- **Objective:** Conducted sentiment analysis on social media data to understand customer opinions and brand perception.
- **Approach:** Utilized natural language processing (NLP) techniques and sentiment lexicons to classify social media posts as positive, negative, or neutral.
- Analyzed data using Python (NLTK, Text Blob) and data visualization libraries.

**Spam mail prediction:**

[https://github.com/hemant087/ML\\_Project](https://github.com/hemant087/ML_Project)

- Developed and applied a data-driven method to detect spam emails by performing data preprocessing, splitting, and training a **Logistic Regression** model using Python, NumPy, Pandas, and Jupyter Notebook; achieved a 95% accuracy rate in spam classification.

**College Club Website**

[https://github.com/hemant087/PCE\\_Club](https://github.com/hemant087/PCE_Club)

- Collaborated with 3 club members to develop admin page, student login, data fetching APIs, and digital library using HTML, CSS, bootstrap, and Django.

**CCTV Based Auto Attendance System**

- Developed an Auto Attendance System using **FaceNet** and **OpenCV** models with an impressive **94% accuracy** in face recognition.
- Created **user and admin dashboards** with **Django** for easy management.
- Successfully deployed the system on a **Raspberry Pi 3B+** with a **camera module** for **seamless monitoring and attendance tracking**.