

UNAIS I

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EDUCATION

BTech Major in EEE and Minor in AIML

Amrita School of Engineering, Coimbatore.

CGPA: 8.05

2022 – (2026)

Secondary & Higher Secondary Education

Ramco Vidya Mandir Senior Secondary School, Ariyalur.

SSLC: 86.6%, HSC: 87.2%

2018 – 2022

CODING PROFICIENCY

- **GeeksforGeeks:** Solved **190 + DSA problems**; ranked **50th** in Amrita Coimbatore by coding score. ([View Profile](#))
- **LeetCode:** Solved **70 + DSA problems** and actively improving problem-solving skills. ([View Profile](#))

TECHNICAL SKILLS

Programming Languages: Python, C/C++, SQL

Core Concepts: DSA, OOP, DBMS

Web Technologies (Basics): HTML, CSS, JavaScript, ReactJS, Flask

Databases & Tools: Git (version control), GitHub, PostgreSQL, Firebase Realtime DB

Soft Skills: Team Collaboration, Communication, Problem Solving, Quick Learning, Leadership

PROJECTS

IoT-Driven Peak Load Shifting | ESP32, ML, Firebase, Streamlit

[GitHub](#)

- Developed a **full-stack Smart Grid IoT system** integrating ESP32-based **end nodes**, **edge computing**, **Firebase**, and **ML** to enable real-time **energy optimization**, **peak load shifting**, and **grid load balancing**.
- Designed ESP32-based **end nodes** with sensing and control, and developed **edge nodes** for data aggregation, **cloud integration (Firebase)**, and **on-device AI** to detect usage patterns using **DBSCAN**.
- Deployed an interactive **Streamlit dashboard** to visualize **energy usage**, **cost savings**, and **battery status**.

Resume Parser Flask API | BERT, Python, Flask, PyMuPDF, Doccano

[GitHub](#)

- Prepared a custom Named Entity Recognition (NER) dataset by extracting text from **raw PDF resumes** using **PyMuPDF**, annotated it with **Doccano**, and converted the labeled data into **token-level BIO format**.
- Fine-tuned a pre-trained **BERT-base model** using **HuggingFace Transformers** for resume-specific NER tasks.
- Developed a **Flask API** that accepts PDF uploads, extracts and preprocesses resume text, and returns **structured JSON output** with labeled entities such as Name, Skills, Designation, and Education, etc.

EXPERIENCE

Software Developer Intern

May 2025

Apical Innovations

Mumbai, Maharashtra

- Developed a **Resume Parser Flask API** that **extracts and processes raw PDF resumes** using **PyMuPDF**, performs **Named Entity Recognition (NER)** with a **fine-tuned BERT model** trained on a **custom BIO-formatted dataset** annotated via **Doccano**, and returns **structured JSON output** through the **Flask API**.

Electrical Engineering Intern

July 2024

Dalmia Cement (Bharat) Ltd.

Ariyalur, Tamilnadu

- Gained knowledge of **cement manufacturing** from **raw material processing** to **final production**, and analyzed the **110 kV power yard**, understanding **power distribution** from the **grid** to **factory operations**. Explored **kiln operations**, **simulation models**, and **automated process control** and **AC Induction Motor**.

ACHIEVEMENTS

Certification:

- Completed "**AI and Edge Computing**" course offered by **L&T EduTech**. ([View Certificate](#))

Sports:

- **Won the CM Trophy in badminton** at the district level and **represented Ariyalur** in the State-level tournament.
- Represented my school in **South Zone hockey** and played for **Ariyalur hockey team** multiple times.