VIGNESH P

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Profile

Enthusiastic and goal-driven Electronics and Communication Engineering student with a strong interest in software development. Possess a working knowledge in Java and MySQL and seeking to launch a career in the IT industry by contributing to real-world software projects and continuously growing as a developer.

Education

Panimalar Engineering College — Chennai, India
Bachelor of Engineering, Electronics & Communication. **CGPA:8.2** — 2022 - 2026

Adhiparasakthi Matric Higher Secondary School
Melmaruvathur, India
HSC, Percentage: **80.16%** — 2022

Dr.Natarajan Matric Higher Secondary School
Vettankulam, India
SSLC, Percentage: **89.2%** — 2020

Experience

Anna university, Guindy — Chennai, India
Intern — Jun2024 - Jul2024

- Completed a 1-month internship at Anna University on 5G wireless communication, applying MATLAB and signal processing tools in hands-on lab sessions to reinforce theoretical concepts.
- Developed a machine learning model for classifying modulation schemes using 5G Toolkit, performed data preprocessing, feature selection, and model evaluation to enhance communication system design.

Projects

Redefining CAPTCHA with Passive User Interaction | JavaScript, HTML, CSS

- Designed a smart login interface using HTML, CSS, and JavaScript to passively capture user behaviour like mouse movement and interaction patterns.
- Implemented a bot detection mechanism that works in the background without disrupting user flow replaces traditional CAPTCHAs, improving both security and user experience.

Bus Reservation System | Java, MySQL

- Developed a Bus Reservation System using **Java and JDBC** to handle booking, cancellation, and seat availability in real time.
- Integrated **MySQL** as the backend database to manage user data, route details, and reservation records efficiently.

Motion Prediction model using Machine learning | Python, Machine learning, sensors

- Developed a motion prediction model using a Random Classifier algorithm in Python, leveraging scikit-learn and real-time sensor data.
- Utilized accelerometer-based input to accurately forecast movement patterns, demonstrating improved reliability over traditional logic-based methods.

Technical Skills

Languages: Java, C, Python, SQL, HTML, CSS, JavaScript(beginner).
Database: MySQL
Developer tools: Git, GitHub, VS code

Certifications

- Introduction to Java
- Introduction to Cloud Computing
- Web Development
- Machine Learning
- 5G Wireless Communication