

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 Bachelor of Engineering, Electronics & Communication. CGPA:8.2	Chennai, India 2022 - 2026
Adhiparasakthi Matric Higher Secondary School India HSC, Percentage: 80.16%	Melmaruvathur, 2022
Dr.Natarajan Matric Higher Secondary School SSLC, Percentage: 89.2%	Vettankulam, India 2020

Experience

Anna university, Guindy Intern	Chennai, India Jun2024 - Jul2024
<ul style="list-style-type: none">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 <ul style="list-style-type: none">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 <ul style="list-style-type: none">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 <ul style="list-style-type: none">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