VEDIKA PRASAD

Electronics and Telecommunications Engineer

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Pune, Maharashtra

SUMMARY

I am a motivated and driven B.Tech student specializing in Electronics and Telecommunications, with a strong interest in technology and innovation. I am adaptable, dedicated, and take full ownership of every task assigned, always striving to deliver my best. Passionate about learning, problem-solving, and continuous improvement, I aim to build a career in technology where I can contribute meaningfully while continuously developing my skills and leadership abilities.

EDUCATION

Pimpri Chinchwad College of Engineering (PCCoE), Pune

B.Tech – Electronics and Telecommunications Engineering (2023–2027)

The Bishop's School, Pune

ICSE – 95.6% | ISC – 91.5%

SKILLS

- Programming & DSA: C, C++, Java, Python, QBASIC, Data Structures & Algorithms
- Web Technologies: HTML, Django
- Data, AI & ML: Data Science, Machine Learning, Generative AI, Digital Image Processing
- Systems & Platforms: Windows, Linux, Cloud Computing
- Security: Cybersecurity
- Business Management : Marketing, Creativity, Innovation
- Soft Skills : Communication, Teamwork, Adaptability, Problem Solving, Presentation, Documentation, Debate, Anchoring

CERTIFICATIONS

- Data Science and Machine Learning – Indian Institute of Technology (IIT) Guwahati
- AI and Machine Learning – GUVI (IIT Madras Research Park)
- Web Development Bootcamp – Udemy
- Django 3: Python Web Development – Udemy
- PostgreSQL Database – Udemy
- Cybersecurity – HP
- MATLAB Onramp – MathWorks
- Simulink Onramp – MathWorks
- Trinity GESE (Spoken English) – Trinity College London

PROFESSIONAL EXPERIENCE

Engineering Intern
Greenpoint Powerlines, Pune

Worked on inverter, UPS, and solar system design; assisted in data analysis, documentation, and performance optimization while developing strong problem-solving and collaboration skills.

Projects

Real-Time Multi-Sensor Predictive Maintenance System
- Developed an IoT-based predictive maintenance system using ESP32 and multiple sensors.
- **Publication: ICWCIE-2026 (Springer Conference), Feb 2026.**

Cybersecurity Awareness Website
- Designed and developed a user-friendly website to educate users on cybersecurity threats and safe practices.

Audio Interactive Visualizer using ESP32
- Built a real-time audio visualizer that maps audio signals to dynamic visual outputs using ESP32.

IoT Anomaly Detection using K-Means Clustering
- Implemented an unsupervised machine learning model to detect anomalies in IoT data.

Fake Currency Detection using Machine Learning
- Developed a machine learning-based system to detect counterfeit currency using image processing techniques.
- Extracted key visual features and trained an ML model to classify genuine and fake currency notes.

Automatic Aiming System using Arduino
- Developed a radar-inspired object detection and target locking system using Arduino, ultrasonic sensor, and servo motors.
- Visualized real-time angle and distance data using Processing IDE.

Room Temperature & Humidity Controller
-Designed and simulated a closed-loop system to regulate room temperature and humidity using MATLAB Simulink, analyzing system stability and response through feedback control.