

SAI PRASANNA RAO KOTTE

ksprao135@gmail.com — +91 8074792590 — Portfolio — LinkedIn — GitHub

Professional Summary

Results-driven Electronics and Communication Engineering student with experience in Python, Machine Learning, Data Analysis, and Frontend Web Development. Designed and deployed ML models (90%+ accuracy), interactive data visualization dashboards, and automation solutions with Streamlit and cloud APIs. Adept at combining technical expertise with problem-solving to deliver business value. Seeking opportunities in data science, AI, or automation engineering.

Skills

- **Programming:** Python, C, C++, Java, MySQL, JavaScript, HTML, CSS, Bootstrap
- **Libraries/Frameworks:** Scikit-learn, Pandas, NumPy, Matplotlib, OpenCV, TensorFlow, Streamlit, MATLAB, API Integration
- **Tools/Platforms:** Power BI, NI Multisim, Cursor IDE, Pipedream MCP, Eleven Labs, Twilio
- **Domains:** Machine Learning, Data Analysis, Embedded Systems, IoT, Conversational AI
- **Soft Skills:** Leadership, Teamwork, Communication, Multi-tasking, Project Management

Education

VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, India

B.Tech in Electronics and Communication Engineering, 08/2022 – 05/2026

CGPA: 8.83/10.0

SR Junior College, Hyderabad, India

Intermediate (Maths, Physics, Chemistry), 07/2020 – 05/2022

Marks: 787/1000

Paramita High School, Karimnagar, India

Matriculation, 06/2019 - 05/2020

CGPA: 10.0/10.0

Internships

AI Intern, Swecha Org, Telangana, India

06/2025 – 07/2025

- Developed Telugu LLM prototypes using Python and TensorFlow, achieving 85% accuracy.
- Collaborated with linguists to optimize text preprocessing, improving model performance for local dialects by 15%.

Data Science Intern, Prasunet Company, Hyderabad, India

03/2025 – 05/2025

- Built and deployed ML models (Random Forest, SVM, LSTM) with Scikit-learn and TensorFlow, delivering 90% accuracy and production readiness.
- Automated data preprocessing with Pandas and NumPy, reducing manual effort by 25%; generated analytics dashboards with Matplotlib.

Industrial Automation Intern, Bharat Heavy Electricals Limited (BHEL), Hyderabad, India 09/2024 – 10/2024

- Operated CNC machines and implemented PLC logic, improving manufacturing efficiency by 15%.
- Supported automation system troubleshooting, reducing downtime by 10%.

Projects

Intelligent Automation & Conversational Tech News Buddy

- Automated Gmail management with Cursor IDE and Pipedream MCP, optimizing email workflows.
- Developed Tech News Buddy agent using Eleven Labs and Twilio, enabling dynamic tech news conversations.
- Orchestrated cloud API infrastructure for seamless, AI-driven communication.

Human Detection System Using MediaPipe & OpenCV

- Built a Python app detecting human presence in images using MediaPipe Holistic and OpenCV.
- Automated trigger actions, accelerating decision workflows for image-based automation.

Learning Path Generator with Model Context Protocol (MCP)

- Deployed Streamlit app for AI-powered personalized learning path generation.
- Automated backend pipelines; integrated YouTube, Google Drive, Notion for real-time resource aggregation.

Certifications

- AWS Cloud Practitioner (NxtWave): Deployed scalable apps on AWS (EC2, S3, RDS, CloudFront).
- Power BI Data Analyst (TechTip24): Built dashboards, reducing analysis time by 30%.
- Generative AI Certificate (upGrad): Deployed text, image, and conversational AI; prompt engineering.
- UI/UX Design Professional (NxtWave): Designed Figma UI/UX, improving user satisfaction by 25%.
- IEEE Summer School on Nanotechnology: Learned nanofabrication and semiconductor technology.
- Introduction to Linear Algebra with MATLAB: Applied MATLAB for data analysis problems.
- Toastmasters Competent Communicator: Delivered 10+ speeches, communication/public speaking skills.
- Convergence Project Contest (VNR VJIET): Top 5% of 100+ teams with innovative project.

Volunteering and Leadership

- Core Member, Scintillate Photography Club (11/2022–Present): Organized 5+ workshops, increased membership by 30%.
- Student Coordinator, ECE Dept (08/2022–Present): Led events for 200+ students with 95% satisfaction.
- Co-Founder, Manam Foundation (06/2022–Present): Provided food assistance to 10+ orphanages (500+ people annually).
- Sergeant at Arms, Toastmasters (06/2022–06/2023): Managed logistics for 50+ members, improving efficiency by 20%.

Additional Information

- **Languages:** English (Fluent), Hindi (Fluent), Telugu (Native)
- **Key Courses:** Full-Stack Development (NxtWave), Data Structures and Algorithms (Smart Interviews)
- **Interests:** Photography, Community Volunteering, Machine Learning Research
- **Strengths:** Empathy, Continuous Learning, Team Leadership