PASUPULETI CHARAN KUMAR

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OBJECTIVE

Motivated AI/ML Developer skilled in Python, Deep Learning, and Web Development, seeking to build real-world intelligent systems and contribute to scalable, user-focused AI applications.

EDUCATION

KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION, [Krishnan Koil, *T.N]*
Bachelor of Technology in Computer Science and Engineering Sep 2022 – April 2026

Narayana Junior College [Kadapa, *AP]*
Intermediate in MPC Stream June. 2020 – May 2022

TECHNICAL SKILLS

- **Programming Languages**: Python, Java
- **Machine Learning & AI:** Deep Learning, Machine Learning, PyTorch, TensorFlow
- **Web Development:** HTML, CSS, JavaScript
- **Areas of Interest**: AI agents, Deep Learning, Machine Learning, Programming
- **Soft Skills**: Communication
- **Languages**: English, Telugu

EXPERIENCE

Research Intern (NITK Surathkal) **May 2025 – Present**

- Developed XAI-based interpretation models for ML classification tasks.
- Applied LIME, SHAP, feature attribution, and model interpretability techniques.
- Analyzed model decision behavior and visualized feature contributions.
- Conducted interpretability comparisons across multiple ML models.
- Contributed to research documentation and experimental result reporting.

PROJECTS

AI Meeting Assistant (Python, Whisper, RAG, Google Calendar Integration)
Built a real-time AI assistant for automated transcription, summarization, contextual Q&A, and event scheduling. Integrated Slack and Google Calendar to automate workflows.

Live Video Transcriber (Python, OpenCV, Google STT)
Built real-time speech transcription over webcam feed with multithreading to reduce latency and improve user readability.

AI NewsReel Generator
Scrapes trending news, summarizes content, generates narration, and produces downloadable video reels with subtitles.

Movie Ticket Booking System
Python-based ticket booking interface with seat selection and confirmation workflow.

PUBLICATION

Development of an Energy Prediction Model for Home Appliances Using Random Forest Algorithm – IEEE INDICON 2025, NIT Rourkela.
Achieved 97.8% R^2 and 98.8% accuracy using Random Forest.
Compared with LSTM and Gradient Boosting models.
Focused on Smart Home Energy Optimization & Sustainability (SDG 7 & 13).

POSITION OF RESPONSIBILITY

Project Lead – Real-Time Video Transcriber
Self-Initiated Technical Project

- Led development of a real-time video transcription system using Python and OpenCV.
- Integrated live speech-to-text with caption overlays and multithreading.
- Implemented UI and optimized for error resilience and user feedback loops.

ACHIEVEMENTS

Top 50 Team - IIT Madras Shaastra Hackathon (2025)

Finalist - Kalasalingam ACM Hackathon (2025)