

# Karthik Pasupuleti

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## EDUCATION

- **NRI Institute of Technology - GPA: 8.8/10.0** August 2023 - Present  
*Bachelor of Technology in Artificial Intelligence and Machine Learning* Vijayawada, India
- **Dhanekula Institute of Engineering and Technology - GPA: 9.2/10.0** June 2020 - June 2023  
*Diploma in Electronics and Communication Engineering* Vijayawada, India



## SKILLS

- **Programming Languages :** Python , SQL
- **Machine Learning :** Transformer Models, Deep Learning, Computer Vision, LLMs, NLP
- **Web and Data Visualization :** HTML, CSS, Flask, Matplotlib, Scikit-learn, Seaborn, **PowerBI**, Tableau
- **IDEs and Tools :** VS Code, PyCharm, Jupyter Notebook, Colab, DBeaver **GitHub**, Hugging face
- **Databases :** MySQL, MongoDB, PostgreSQL, TimescaleDB

## WORK EXPERIENCE

- **EFFTRONICS SYSTEMS PRIVATE LIMITED**  December 2022 - June 2023  
*System Administrator Intern - On-Site* Mangalagiri, India
  - Enhanced **IT infrastructure** efficiency by implementing automated monitoring, proactive issue resolution, and network optimization, reducing response times by **20%** and minimizing downtime.
  - Optimized **cloud data workflows**, cutting manual processing by **30%** and improving system accuracy.
- **CODEGNAN IT SOLUTIONS PVT LTD (APSCHE)**  May 2024 - July 2024  
*Generative AI Intern - Hybrid* Vijayawada, India
  - Developed and optimized **Machine Learning** and **Deep Learning** models, including CNNs for image classification and **AI-driven** video generation.
  - Gained hands-on expertise in **Quantum Computing**, **cloud integration**, and **prompt engineering**, enhancing AI scalability and deployment.
- **AP STATE CIVIL SUPPLIES CORPORATION LIMITED**  June 2025 - Present  
*Project Intern - On-Site* Vijayawada, India
  - **Analyzing large-scale** procurement, distribution, and inventory data to **optimize supply chain** efficiency.
  - Collaborated with **Government officials** in meetings and reviews to support **data-backed decisions**.

## PROJECTS

- **Classification of Iris Flower using various ML Algorithms** January 2024 - March 2024  
*Tech Stack: Python, Scikit-learn, Matplotlib, Seaborn* 
  - Developed a machine learning pipeline using **Logistic Regression**, **Decision Tree**, **SVM**, **Naive Bayes**, **Neural Networks**, and **XGBoost**, achieving **95.5%** accuracy.
  - Optimized model performance with **GridSearchCV**, **RandomizedSearchCV**, and **Repeated Stratified K-Fold cross-validation**, enhancing accuracy and reliability.
- **Automated Data Monitoring and Alert System for DWLRs** May 2024 - July 2024  
*Tech Stack: Python, Flask, Timescale Database, Machine Learning, Web Tech's, Visualization Libraries* 
  - Developed an anomaly detection system for **14,000+ DWLRs** with **95%** failure detection accuracy.
  - Implemented real-time alerts, reducing stakeholder response time by **50%** and optimizing maintenance for **20,000+ DWLRs**.

## CERTIFICATIONS AND PUBLICATIONS

- **Machine Learning Specialization, DeepLearning.AI, Stanford University**
- **CS50's Introduction to Computer Science, HarvardX**
- **IT Automation with Python Specialization, Google**
- **Advanced Data Analytics Specialization, Google**
- **AI-IoT Powered Dual-Stage Crowd Risk Detection System , PATENT**
- **AI and Deep Learning for Adolescent Health Monitoring and Intervention, PATENT**
- **Automated Monitoring and Real-Time Alert System for DWLRs, IEEE (ICCCNT 2025)**
- **AutoGrader: ML & NLP-Based Handwritten Exam Evaluation System , IEEE (ICWITE 2025)**
- **Short-to-Long: An AI Powered Pipeline for Video-to-Reel Sumarization, IEEE (ICCCNT 2025)**