

# PAVAN KUMAR JAVVAJI

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I have 2 years of experience in Data Science and AI/ML, where I've successfully built and deployed models to drive business decisions. I'm eager to leverage my expertise in a new role to solve complex challenges and contribute to impact projects.

## EDUCATION

### NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL

Warangal, Telangana

**Bachelor's Degree:** Major in Electronics and Communication, Minor in Data Science and AI

May- 2023

## WORK EXPERIENCE

### ENVISION INFOTEC

Chennai, Tamilnadu

#### Data Scientist

Jan 2023 – Present(Remote)

- Identified and resolved data anomalies and inconsistencies in a large dataset, leading to enhanced data quality and improved decision-making accuracy for the team
- Developed and fine-tuned machine learning models to accurately predict future sales, delivered a 20% revenue increase and streamlined inventory management processes
- Introduced advanced analytic methods through interactive Power BI dashboards, uncovering key insights that contributed to a 15% increase in revenue and optimized marketing strategies for better targeting.

## PROJECTS

### PREDICTIVE MODEL ON SOLAR POWER- Machine Learning, Deep Learning, Python , AWS, SQL

- Developed and deployed a machine learning model to predict solar panel defects, achieving 95% accuracy, enhancing energy production efficiency by 10%, and reducing downtime by 20%.
- Implemented ML Ops and CI/CD pipelines for end-to-end deployment, utilizing logistic regression, KNN, and Random Forest algorithms and ensemble Techniques like XGBoost with Power BI for defect pattern visualization.

### SALES FORECASTING OF A PRODUCTS - Machine Learning, Deep learning, Time Series Models, Python

- Developed a forecasting model for 63 product categories using 6 million longitudinal records, employing SARIMA, Prophet, LSTM, RNN and ensemble techniques to achieve highly accurate predictions.
- Improved model reliability with data preprocessing, outlier detection, and imputation. Visualized trends using Matplotlib and Seaborn, enabling strategic adjustments. Deployed a Flask API with a Streamlit frontend, increasing decision-making by 20%.

### LEARNING RECOMMENDATION SYSTEM- Artificial Intelligence, Generative-AI, LLMS, Vector db, AWS

- Business Solution: Developed a personalized career recommendation system for students using large language models (LLMs) like Gemini Pro, with recommendations stored in JSON format for easy management.
- Technology and Benefits: Utilized Google Colab with GPU, employing LLMs such as LLaMA2, LLaMA3, Qwen\_2, Dolly, and Gemini Pro, with Streamlit and Ngrok for deployment. Achieved a 10% productivity boost.

### ENHANCING SAFETY MANAGEMENT IN LIQUID STEEL PRODUCTION - Deep Learning, Computer Vision

- Objective: Developed a machine learning solution to detect hazardous objects (e.g., cylinders, shock absorbers, gas tanks) in metal scrap to improve safety in liquid steel production
- Approach: Collected and annotated metal scrap images using Roboflow, applied preprocessing and augmentation techniques, and trained multiple object detection models (YOLOv5, YOLOv8, YOLOv9), identifying YOLOv8 as the best performer.
- Outcome: Successfully deployed the YOLOv8 model using Stream lit, achieving high accuracy in real-time detection of hazardous objects, enhancing operational safety.

## SKILLS

**Programming Language:** Python (Proficient), Structured Query Language (Proficient)

**Data Analysis and Visualization:** Exploratory Data Analysis, Power BI, Tableau, MS Excel (Basics)

**Algorithms:** Machine Learning (Supervised & Unsupervised), Deep Learning (ANN, CNN, RNN, GRU)

**Libraries:** Pandas, NumPy, Matplotlib, Sea-born, Scikit-learn, Tensor Flow, Keras, Nltk, Beautiful Soup, Text Blob.

**Frame works:** Flask (For Front End), AWS (sage maker), Google Colab, Stream Lit, Ngork.( Cloud Deployment)

**Techniques:** Ensemble models (Boosting, Bagging, Stacking), Regularization Techniques (Lasso & Ridge), PCA, SVD

**Methods:** Clustering, Forecasting, Text mining & NLP, Predictive modeling, Association Rules, Time Series Analysis