Kodari Sravan

Data Scientist | Machine Learning | M.Tech IIT Bombay
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Professional Summary

- Data Scientist proficient in Python, SQL, and machine learning, delivering predictive models and interactive visualizations. Experienced with Pandas, Scikit-learn, PyTorch, and Plotly Dash for data analysis and dashboard development.

Skills

- **Programming Languages**: Python, SQL
- **Machine Learning**: Linear Regression, Logistic Regression, Decision Trees, Random Forest, Gradient Boosting, K-Means Clustering, ARMA, GARCH
- **Deep Learning**: PyTorch, Multi-Layer Perceptrons (MLPs), Convolutional Neural Networks (CNNs), Transformers, Transfer Learning
- **Data Tools**: Pandas, NumPy, Scikit-learn, MongoDB, SQLite, Plotly Dash
- **Data Visualization**: Matplotlib, Seaborn, Plotly
- **Other Tools**: Linux, API Design, ETL Pipelines, Feature Engineering, Hyperparameter Tuning
- **Domains**: Data Science, Predictive Modeling, Data Analysis, Financial Modeling, Data Visualization, Civil Engineering, Aerospace Engineering
- **Soft Skills**: Problem-Solving, Analytical Thinking, Team Collaboration, Client Communication

Projects

- **Applied Data Science Lab (WorldQuant University)**:
  - **Housing Price Prediction (Mexico)**: Developed linear regression model for 21,000 properties, achieving **90% accuracy** using Pandas and Scikit-learn for data cleaning, feature engineering, and correlation analysis.
  - **Apartment Price Prediction (Buenos Aires)**: Built linear regression model with ETL pipelines for imputation and encoding, reducing overfitting; achieved **92% R^2 score**.
  - **Air Quality Forecasting (Nairobi)**: Created ARMA time-series model for particulate matter prediction, extracting MongoDB data via pymongo with hyperparameter tuning.
  - **Earthquake Damage Prediction (Nepal)**: Constructed logistic regression and decision tree models, analyzing SQLite data for biases to ensure ethical outcomes.
  - **Bankruptcy Prediction (Poland)**: Developed random forest and gradient boosting models for imbalanced datasets, achieving **20% improved accuracy** using resampling techniques on Linux.
  - **Customer Segmentation (US)**: Applied K-Means clustering with PCA visualization, built interactive Plotly Dash dashboard for consumer analysis.
  - **A/B Testing (WorldQuant University)**: Conducted chi-square testing for email campaign impact, using Python ETL pipelines and three-tiered data architecture.

- **Stock Volatility Forecasting (India)**: Built GARCH model for asset volatility prediction, using API-acquired stock data stored in SQLite; served via custom API.
- **Additional Data Science Projects**:
  - Heart Disease Prediction: Built logistic regression and decision tree models, evaluated with precision, recall, F1, and ROC-AUC metrics.
  - Iris Dataset Clustering: Applied K-Means clustering with PCA visualization, evaluated using Silhouette score.
  - Car Price Prediction: Developed PyTorch MLP for car price prediction, optimized via grid search, achieving **92%** R^2 with MAE and MSE metrics.

Education

- **M.Tech, Aerospace Engineering**   2024–2026
  Indian Institute of Technology Bombay, Mumbai, India

- **B.Tech, Civil Engineering**   2019–2023
  Sreenidhi Institute of Science and Technology, Hyderabad, India

- **Intermediate/+2**   2017–2019
  Narayana Junior College, Hyderabad, India

- **High School**   2016–2017
  Tejaswi High School, Hanamkonda, India

Courses

- **Foundation of Machine Learning (CS 725)**   2024
  Indian Institute of Technology Bombay, Mumbai, India

- **AI and Data Science (PH 227)**   2024
  Indian Institute of Technology Bombay, Mumbai, India

Certifications

- **Applied Data Science Lab**   06/2025
  WorldQuant University | Credly badge

- **Applied AI Lab: Deep Learning for Computer Vision**   03/2025
  WorldQuant University | Credly badge

- **Artificial Intelligence Course**   10/2024
  Teachnook Collaboration with Cognizance IIT Roorkee | Certificate