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, PostgreSQL, 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** using **Python** and **Scikit-learn**.
  - **Air Quality Forecasting (Nairobi)**: Created **ARMA** time-series model for particulate matter prediction, extracting data from **PostgreSQL** with **SQL** queries and applying **hyperparameter tuning**.
  - **Earthquake Damage Prediction (Nepal)**: Constructed **logistic regression** and **decision tree** models, analyzing **SQLite** data for biases to ensure ethical outcomes using **Python**.
  - **Bankruptcy Prediction (Poland)**: Developed **random forest** and **gradient boosting** models for imbalanced datasets, achieving **20% improved accuracy** using resampling techniques on **Linux** with **Python**.

  - **Customer Segmentation (US)**: Applied **K-Means clustering** with **PCA** visualization, built interactive **Plotly Dash** dashboard for consumer analysis using **Python**.
  - **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** with **Python**.
- **Additional Data Science Projects**:
  - Heart Disease Prediction: Built **logistic regression** and **decision tree** models, evaluated with **precision**, **recall**, **F1**, and **ROC-AUC** metrics using **Scikit-learn**.
  - Iris Dataset Clustering: Applied **K-Means clustering** with **PCA** visualization, evaluated using **Silhouette score** with **Python** and **Scikit-learn**.
  - 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