# Kodari Sravan

**Data Scientist**

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## Professional Summary


Data Scientist skilled in Python, SQL, and machine learning, with a proven track record of delivering predictive models and actionable insights from complex datasets. Built regression, clustering, and deep learning models using Pandas, Scikit-learn, and PyTorch, achieving 90-95 percent accuracy in price prediction projects. Seeking to drive data-driven innovation in a dynamic Data Science role.


## 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*

## Projects

- **Applied Data Science Lab Projects (WorldQuant University)**:
  - **Housing in Mexico**: Analyzed 21,000 properties to evaluate size vs. location impact on prices using correlation analysis, with CSV data cleaning and visualizations.
  - **Apartment Sales in Buenos Aires**: Developed a linear regression model for apartment price prediction, implementing data pipelines for imputation and encoding to mitigate overfitting.
  - **Air Quality in Nairobi**: Built an ARMA time-series model for particulate matter prediction, extracting MongoDB data via pymongo with hyperparameter tuning.
  - **Earthquake Damage in Nepal**: Created logistic regression and decision tree models for building damage prediction, analyzing SQLite data for biases to ensure ethical outcomes.
  - **Bankruptcy in Poland**: Constructed random forest and gradient boosting models for bankruptcy prediction, using Linux and resampling techniques for imbalanced datasets.
  - **Customer Segmentation in the US**: Applied K-Means clustering with PCA visualization, developing an interactive Plotly Dash dashboard for consumer group analysis.
  - **A/B Testing at WorldQuant University**: Conducted chi-square testing for email campaign impact, utilizing Python ETL classes and a three-tiered data application.
  - **Volatility Forecasting in India**: Developed a GARCH model for asset volatility prediction, using API-acquired stock data stored in SQLite and served via a custom API.

- **Additional Data Science Projects**:
  - **Heart Disease Prediction**: Built logistic regression and decision tree models, evaluated using 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 a PyTorch MLP for car price prediction, optimized via grid search, evaluated with MAE, MSE, and $R^2$.

## 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, MLPs (Multi-Layer Perceptrons), CNNs, Transformers, Transfer Learning
- **Data Tools**: MongoDB, SQLite, Pandas, NumPy, Scikit-learn, Plotly Dash
- **Visualization**: Matplotlib, Seaborn, Plotly, PCA Visualization
- **Other Tools**: Linux, API Design, ETL Pipelines, Hyperparameter Tuning
- **Domains**: Data Science, Civil Engineering, Aerospace Engineering
- **Soft Skills**: Problem-Solving, Analytical Thinking, Team Collaboration

## 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** *Issued: 06/2025*
*WorldQuant University*
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**APPLIED AI LAB: DEEP LEARNING FOR COMPUTER VISION** *Issued: 03/2025*
*WorldQuant University*
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**ARTIFICIAL INTELLIGENCE COURSE** *08/2024–10/2024*
***Teachnook*** *Collaboration with Cognizance IIT Roorkee*