

**Kodari Sravan**

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 Portfolio

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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

<b>M.TECH, AEROSPACE ENGINEERING</b>	2024–2026
<i>Indian Institute of Technology Bombay, Mumbai, India</i>	
<b>B.TECH, CIVIL ENGINEERING</b>	2019–2023
<i>Sreenidhi Institute of Science and Technology, Hyderabad, India</i>	
<b>INTERMEDIATE/+2</b>	2017–2019
<i>Narayana Junior College, Hyderabad, India</i>	
<b>HIGH SCHOOL</b>	2016–2017
<i>Tejaswi High School, Hanamkonda, India</i>	

## 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

<b>FOUNDATION OF MACHINE LEARNING (CS 725)</b>	2024
<i>Indian Institute of Technology Bombay, Mumbai, India</i>	
<b>AI AND DATA SCIENCE (PH 227)</b>	2024
<i>Indian Institute of Technology Bombay, Mumbai, India</i>	

## Certifications

<b>APPLIED DATA SCIENCE LAB</b>	<i>Issued: 06/2025</i>
<i>WorldQuant University</i>	
<a href="#">View Credential</a>	
<b>APPLIED AI LAB: DEEP LEARNING FOR COMPUTER VISION</b>	<i>Issued: 03/2025</i>
<i>WorldQuant University</i>	
<a href="#">View Credential</a>	
<b>ARTIFICIAL INTELLIGENCE COURSE</b>	08/2024–10/2024
<i>Teachnook Collaboration with Cognizance IIT Roorkee</i>	
<a href="#">View Credential</a>	