

# VENUDATTA KARUMURI

## Aspiring Data Scientist

+91-9490676066 [venukarumuri986@gmail.com](mailto:venukarumuri986@gmail.com) [linkedin.com/venudatta-karumuri](https://www.linkedin.com/venudatta-karumuri) [github.com/venudatta67](https://github.com/venudatta67)  
Bengaluru

### SUMMARY

Enthusiastic and results-driven data science aspirant with experience in building machine learning models, data preprocessing, data modeling, and visualization. Skilled in Python, SQL, Power BI, Tableau, and statistical techniques, with a good understanding of database management and ETL processes. Strong communicator with a passion for solving business problems using data-driven insights.

### EXPERIENCE

09/2024 - present  
Bengaluru

◆ Data Science Consultant

Rubixe AI Solutions

- Designed and deployed supervised and unsupervised machine learning models, applying statistical techniques to address complex business problems and support data-driven decision-making.
- Performed comprehensive exploratory data analysis (EDA), feature extraction, and data preprocessing on large-scale structured and unstructured datasets.
- Optimized model performance through advanced feature engineering techniques, hyperparameter tuning (using GridSearchCV/RandomizedSearchCV), and model evaluation metrics (AUC-ROC, F1-score, etc.)
- Built dynamic Power BI dashboards and reports to visualize sales trends, customer segmentation, and key performance indicators (KPIs) for a pizza retail client, enabling actionable insights.
- Developed and maintained automated ETL pipelines using Python and SQL to streamline data extraction, transformation, and loading processes, reducing manual reporting effort by over 30%.

07/2022 - 03/2024  
Hyderabad

◆ Software Engineer

Persistent Systems Ltd

- Contributed to the development of an automated loan-processing application on the Salesforce platform by integrating third-party APIs for real-time data exchange and validation.
- Built custom Salesforce Lightning Components and Apex Triggers to implement complex business logic and enhance user experience across multiple workflows.
- Developed robust Apex unit tests with over 80% code coverage to ensure production readiness and maintain application reliability.
- Managed deployment workflows by migrating components and test classes across environments (Developer, Sandbox, Production) using Inbound and Outbound Change Sets.
- Optimized backend automation scripts and data processes, resulting in a 25% improvement in overall system performance and processing speed.

### EDUCATION

05/2018 - 06/2022  
CGPA: 8.22

- ◆ B. Tech in Electronics & Communication Engineering  
Vishnu Institute of Technology

### TECHNICAL SKILLS

Python	SQL	Machine Learning	Deep Learning	Flask	Power BI	Tableau	Git/Github	Open AI API
Advanced Excel	unit Testing	Apex Triggers	Salesforce LWC	Langchain				

### SOFT SKILLS

Adaptability	Analytical Thinking	Data Storytelling	Effective Communication	Time Management
--------------	---------------------	-------------------	-------------------------	-----------------

### PROJECTS

Sales Effectiveness for FicZon Inc

**A data science project focused on enhancing sales performance by classifying customer leads based on quality and conversion potential.**

- Extracted and queried sales data from a MySQL database, followed by comprehensive data preprocessing to handle missing values, outliers, and inconsistent formats.
- Performed feature analysis on key attributes such as customer location, delivery mode, lead source, lead status, and sales agent activity to evaluate their impact on lead conversion.
- Built predictive classification models using Decision Tree and Random Forest ensemble techniques to categorize leads into high-potential and low-potential segments.
- Achieved strong model performance with high accuracy and F1-scores, contributing to improved targeting strategies and sales team efficiency.

**Tools Used:** MySQL, Jupyter Notebook, MS Excel, VS Code

**Accuracy Achieved:** 98%

## **Employee Performance Prediction – Inx Future Inc**

**A machine learning project focused on predicting employee performance ratings based on structured HR data, supporting proactive talent management and decision-making.**

- Processed and explored a rich HR dataset containing attributes such as demographics, job role, experience, and satisfaction metrics, with the goal of predicting the performance rating of employees.
- Trained and evaluated multiple machine learning algorithms including Logistic Regression, Decision Tree Classifier, Random Forest, optimizing performance through hyperparameter tuning and model comparison
- Conducted detailed exploratory data analysis (EDA), generating distribution plots, boxplots, and a correlation heatmap to identify key factors influencing employee performance.
- Implemented modular Jupyter Notebooks structured into data processing, model training, predictions, and visualization stages for better project organization and clarity.

**Tools Used:** Jupyter Notebook, Pandas, Scikit-learn, Seaborn, Matplotlib

**Accuracy Achieved:** 91%

## **Employee Salary Prediction**

**A regression-based machine learning project aimed at estimating employee compensation in the IT industry based on various demographic and professional attributes.**

- Gathered and analyzed employee data across different IT domains, focusing on features such as gender, age, experience, domain, and technical skills.
- Developed a Random Forest Regressor to predict salaries, improving model performance through hyperparameter tuning and cross-validation techniques.
- Assessed model effectiveness using regression evaluation metrics including R2\_score, Mean Absolute Error (MAE), and Mean Squared Error (MSE), given the continuous nature of the target variable.
- Deployed the trained model into a Flask web application, enabling users to input custom feature values and receive real-time salary predictions as output.

**Tools Used:** VS Code, Jupyter Notebook, Flask

**R2\_score Achieved:** 88%

## **Conversational AI Prototype (Internal POC)**

**Designed and developed a proof-of-concept conversational AI assistant aimed at automating document-based query resolution for internal finance operations**

- Built a document-based QA assistant by integrating Langchain with the OpenAI API, enabling context-aware query responses from internal financial documentation.
- Utilized LlamaIndex and Pinecone vector database to implement semantic search across multiple PDF sources, ensuring relevant context retrieval for user queries.
- Designed and tested conversational flow logic using the RASA framework, simulating human-like interactions for internal support and ticketing use cases.
- Leveraged SQL to fetch contextual data from internal databases for dynamic response generation during RAG (RetrievalAugmented Generation) simulations

**Tool Used:** Langchain, OpenAI API, LlamaIndex, Pinecone, RASA, Python

**Accuracy Achieved:** Delivered 90–95% contextually accurate responses in prototype testing.

## **CERTIFICATIONS**

**Pynum AI Developer Certification**

July 2025

[Pynum AI Developer Certification](#)

**Certified Data Scientist – NASSCOM Future Prime Skills**

April 2025

[Certified Data Scientist - Nasscom](#)

**Certified Data Scientist Foundation -- IABAC**

June 2025

[Data Scientist Foundation - IABAC](#)

**Machine Learning Foundation – Internshala**

October 2024

[Machine Learning Foundation - Internshala](#)