Kishore L

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SUMMARY

Data Scientist specialized in NLP, Conversational AI, and Machine Learning with hands-on experience in building intelligent systems using Python, Scikit-learn, TensorFlow, and RAG techniques. Passionate about deploying scalable AI solutions and uncovering data-driven insights to drive real-world impact, especially in high-tech manufacturing ecosystems.

EDUCATION

SAVEETHA SCHOOL OF ENGINEERING **2021–2025**
Bachelor of Technology - Artificial Intelligence and Data Science-**CGPA - 8.27** *Chennai, India*

SRI VISHWA VIDYALAYA MATRIC HR SEC SCHOOL, VANDALUR **2021**
XII **Percentage -86**.16 *Chennai, India*

SRI VISHWA VIDYALAYA MATRIC HR SEC SCHOOL, VANDALUR **2019**
X **Percentage – 86** *Chennai, India*

PROJECTS

BINARY CLASSIFICATION ON WATER POTABILITY **May 2023**

- This project aims to improve water potability prediction accuracy by combining the K-Nearest Neighbour (KNN) algorithm with Linear Regression, Support Vector Machine, Naive Bayes, and Decision Tree. Using water quality parameters for binary classification, the study enhances prediction effectiveness, benefiting public health and environmental management.

DATA VISUALIZATION USING TABELEAU: NETFLIX RECOMMENDATION **December 2024**

- Worked with the Netflix Recommendation Engine dataset from Kaggle to perform in-depth data analysis and uncover patterns in user viewing behaviour, content preferences, and rating trends. Applied ML models to enhance content recommendations and drive actionable insights. Designed and built interactive dashboards using Tableau to visualize key metrics and trends, enabling executives to make data-driven decisions for content strategy and user engagement optimization.

AI-DRIVEN SYSTEM TO PREDICT EMPLOYEE ATTRITION **March 2025**

- Developed a web-based predictive application using the IBM Employee Attrition dataset to forecast employee turnover risk. Applied data preprocessing techniques and trained machine learning models including Logistic Regression, Random Forest, and XGBoost. Built interactive dashboards with Streamlit, integrating data visualization tools like Seaborn and Matplotlib to present insights and risk factors, enabling HR teams to make proactive retention decisions.

NLP-CONVERSATIONAL AI PLATFORM FOR AWARE INTERACTIONS **December 2024**

- Developed a conversational AI system using NLP techniques to handle dynamic user interactions. Pre-processed and vectorized large textual data using TF-IDF and word embeddings; trained intent recognition models with Scikit-learn and NLTK, and performed sentiment analysis and topic modeling to uncover key trends. Integrated a Streamlit-based data console for real-time insights and interaction monitoring. Explored RAG (Retrieval-Augmented Generation) methods to enhance contextual accuracy, ensuring the system was scalable and deployable in client-facing environments.

Social Network Link Prediction using GraphSAGE **April 2025**

- Implemented GraphSAGE, a graph neural network (GNN) algorithm, to predict future connections between users in a social network based on neighbourhood feature aggregation. Pre-processed graph data using NetworkX and trained the model using PyTorch, Geometric. Achieved ~92% prediction accuracy, outperforming traditional link prediction methods like Common Neighbors and Jaccard Similarity. Generated meaningful low-dimensional node embeddings and visualized the predicted connections using t-SNE and matplotlib, simulating real-world networking behaviour effectively.

Breast Cancer Prediction using CNN (Keras) **June 2025**

- Built a Convolutional Neural Network (CNN) using Keras to classify breast cancer images into benign and malignant categories. Applied image preprocessing techniques, augmented the dataset for robustness, and evaluated the model using accuracy, precision, and recall to ensure high reliability for medical screening support.

TECHNICAL SKILLS

Programming: Python, SQL, R
ML Libraries: Scikit-learn, XGBoost, Seaborn, Pandas, NumPy, Matplotlib
Deep Learning: TensorFlow, Keras.
NLP & AI: NLTK, RAG concepts, Conversational AI
Tools: Streamlit, Power BI, Tableau, Visual Studio

SOFT SKILLS

- Effective Communication (verbal and written)
- Problem Solving and Critical Thinking
- Analytical and Strategic Thinking
- Adaptability and Fast Learning
- Collaboration and Cross-functional Teamwork
- Public Speaking and Technical Presentation
- Creativity and Innovative Thinking
- Time Management and Prioritization

CERTIFICATIONS

- Oracle AI Vector Search Certified Professional
- Oracle APEX Cloud Developer Certified Professional
- Prompt Engineering and Generative AI-Fundamental, Udemy
- Master Prompt Engineering, Udemy
- Prompt Engineering for Git: Leveraging Prompt Engineering to learn Git, Skillsoft
- Python For Data Science, SKILL VERTEX
- Data analysist with python, NPTEL.
- Data Warehousing and Data Mining
- Introduction to generative AI, Google
- GenAi for Data Scientist, Coursera
- Fundamentals Of Data Science
- Data Visualization using Python, R
- English language for competitive exams, EF
- Block chain for security, NPTEL

CO-CURRICULAR ACTIVITIES

- Presented a poster in Star Summit held at SIMATS Engineering, a prestigious presentation event recorded in the American record book.
- Presented a project held at SIMATS Engineering, a project presentation (Mini-project)-PIR Sensor enabled MCB-Tripper with IIMS Technology.
- Successfully completed a job simulation for BCG AI by creating a chatbot for client recommendations.
- Completed a data science job simulation for British Airways by developing a dashboard based on the provided insights database.