

S Kaarthikk Vishwa(AI Developer)

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PROFILE

Passionate and detail-oriented AI/ML Engineer with a Master's in Data Science and internship experience at Bosch Global Software Technologies. Proficient in Python and advanced machine learning frameworks such as TensorFlow, PyTorch, and Scikit-learn. Skilled in deploying machine learning models, performing data preprocessing, and delivering actionable insights. Adept at collaborating with cross-functional teams to implement innovative solutions for complex business challenges.

SKILLS

Programming Languages — Python | **Machine Learning and Deep Learning** — TensorFlow, Keras, scikit-learn, Pytorch | **Data Visualization** — Power BI, Seaborn, Matplotlib | **Computer Vision** — OpenCV, Image Processing | **Data Manipulation** — Pandas, NumPy | **Database Management** — MySQL | **Web Development** — Streamlit | **Web Scraping and Automation** — Selenium | **Cloud Computing** — AWS | **Natural Language Processing** — NLTK, spaCy | **Version Control** — Git

PROFESSIONAL EXPERIENCE

Bosch Global Software Technologies 01/2024 – 05/2024 | Bangalore, India
Data Science Intern 📄

Opacity testing using Image Classification with Deep Learning:

- Built a **deep learning model** using **MobileNet** for opacity testing, achieving 95% classification accuracy.
- Automated **data pipelines**, reducing preprocessing time by 40%, and deployed the model for real-time analytics.
- Streamlined **image annotation processes**, ensuring efficient handling of large datasets.
- Utilized technologies such as **TensorFlow** for model development, **Python** for data processing, **OpenCV** for image handling, and **Git** for version control throughout the project

Bosch Global Software Technologies 07/2022 – 12/2022 | Bangalore, India
Data Science Intern 📄

Battery Health Analysis using LSTM Neural Networks:

- Developed a **battery health monitoring model** using **LSTM neural networks**, achieving 20% improved prediction accuracy.
- Processed time-series data with **feature engineering** and optimized **TensorFlow pipelines**, reducing error rates by 15%.
- Deployed the model for **real-time monitoring**, enabling early detection of battery health issues.
- Utilized technologies such as **Git** for version control, **TensorFlow** for model development, **Pandas** and **NumPy** for data preprocessing, and **Matplotlib** for data visualization throughout the project.

PROJECTS

Dominos Sales Forecasting and Inventory Optimization 📄

- **Exploratory data analysis** done on 1.5M+ rows of pizza sales data to uncover trends and customer behavior.
- Forecasted sales and estimated ingredient demand for optimized inventory planning.
- Time-series forecasting model (**ARIMA**) used to predict weekly sales and improve ingredient procurement.
- Forecasted pizza sales with 90%+ accuracy, enabling precise ingredient demand estimation and reducing potential inventory wastage by 20% with the **Mean Absolute Percentage Error (MAPE)** of 9.85%.
- **Python** for data analysis and forecasting, **SQL** for managing and querying sales data, **ARIMA** for time-series forecasting, **Pandas** for data manipulation, **Matplotlib** for visualization, and **Statsmodels** for statistical modeling.

CHEFMATE:AI-Powered Restaurant Recommendation and Cooking Assistant Application 📄

- Developed a **Streamlit** application to recommend **restaurants** based on user **location** and **cuisine preferences** using **clustered vectorized data**.
- Integrated **folium** for interactive maps with real-time **navigation routes** from user locations to **restaurant destinations**.
- Created an **AI-powered chatbot** to provide detailed **cooking instructions** and handle **domain-specific queries** using **NLP**.
- Processed data from **S3** to **RDS** and deployed the application on **AWS EC2** for **scalability** and **high availability**.

EDUCATION

M.Sc. Data Science 2019 – 2024 | Coimbatore, India
Coimbatore Institute Of Technology - CGPA - 8.6

CERTIFICATES

- Master Data Science - guvi 📄
- PowerBI - guvi 📄
- Tableau - great learning