Mohammed Harshath SS
Data Scientist

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PROFILE

A passionate and ambitious recent graduate with expertise in data science, machine learning, and statistical analysis. Proficient in Python and Sql, with experience in building predictive models and deriving actionable insights. Eager to apply my skills to solve complex problems and drive impactful, data-driven projects.

SKILLS

Python | Machine Learning | Deep Learning | SQL | Power BI | Selenium | NLP | Pandas | Numpy | Scikit-learn | Tensorflow | Pytorch | Transformers | Deployment

PROJECTS

Inclusive Gamefied Special Education Platform

Key Skills: Unity, Blender, C#, Python, KivyMD, Firebase

- Created an immersive, interactive platform tailored for diverse learning abilities.
- Integrated real-time data management and authentication using Firebase.
- Designed customizable modules for personalized learning experiences. Successfully deployed in the testing phase, demonstrating its effectiveness in enhancing student engagement and accessibility.

Fake Review Classification and Topic Modeling

Key Skills: Python, NLTK, scikit-learn, Gensim, BERT, FastAPI, Docker.

- Designed and developed a system to classify fake reviews using BERT for state-of-the-art text classification.
- Performed topic modeling to identify key themes in reviews using Latent Dirichlet Allocation (LDA).
- Preprocessed and analyzed text data with NLTK and scikit-learn to enhance model performance
- Deployed the solution as a web API using FastAPI, enabling seamless integration and usability.
- Containerized the application with Docker, ensuring scalability, portability, and efficient deployment.

CarDekho Vehicle Recommendation System

Key Skills: Selenium, SQL, Recommendation Engine

- Built CarDekho Vehicle Price Recommendation System and used collaborative filtering technique
- Deployed to help the customer to get recommendation based on the price, specifiactions and features of cars
- Extracted real-time data from CarDekho and engineered a data pipeline to transform unstructured Information into a structured dataset. Subsequently, derived 30 additional features to enrich data for analysis.
- Developed a machine learning recommendation model that achieved a precision@10 score of 0.75, effectively suggesting highly relevant items to 80%

WORK EXPERIENCE

Junior Data Analyst - Intern
WeInvest   July 2023 – Sep 2023

- Processed and cleaned customer investment datasets to prepare for analysis.
- Implemented Principal Component Analysis (PCA) to reduce the dimensions of the dataset, enhancing the efficiency of subsequent analyses.
- Applied K-Means Clustering to segment customers based on their investment patterns.
- Developed customized investment plans tailored to different customer clusters to maximize returns.

EDUCATION

IIT-M Advanced Programming Professional & Master Data Science   Aug 2024 – Nov 2024
IIT-M GUVI

Bachelor of Technology in Artificial Intelligence and Data Science   Jul 2021 – May 2024
Kathir College of Engineering   - Cum GPA: 8.02/10

CERTIFICATES

- Data Analytics: ICT Academy
- Machine Learning Specialist : AWS