Gru Siv

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Summary

As a Computer Science graduate with a focus on Artificial Intelligence, I am passionate about AI, particularly in Large Language Models (LLMs), and have a strong desire to apply these technologies to solve real-world problems. I am actively expanding my Machine Learning and cloud computing (AWS) skills while adhering to best software engineering practices. With a year of experience as a Software Development and QA Intern, I am confident in my ability to collaborate with teams and deliver results. My ultimate goal is to contribute to innovative AI and ML projects with practical impact.

Education

Brunel University London   *BSc in Computer Science (Artificial Intelligence) – Graduated with a 2:1*   *September 2020 – June 2024*

Projects

Tip-Of-Tongue Known Item Retrieval for Movies – Final Year Project

-Developed a conversational AI system leveraging NLP and LLMs (Llama 2 via Langchain) to retrieve movie titles based on partial user memories.

-Applied autoencoder-based anomaly detection (TensorFlow, Keras) to identify unique aspects of movie plots.

-Used vectorization techniques (word embeddings, cosine similarity) to dynamically refine search results.

-Achieved 80% accuracy in retrieving correct movie titles through iterative questioning.

- LLMs, NLP, ML model development, vector embeddings.

Text Summarization using Map-Reduce & Refine

-Built a text summarization tool using Langchain and Mistral-7B for context-aware summaries.

-Implemented map-reduce techniques to split text and improve summarization accuracy.

- Extracting insights from unstructured text, crucial for ESG data summarization.

Stock Price Prediction with ARIMA

-Built a time-series forecasting model using ARIMA to predict hourly stock price movements.

-Preprocessed and analyzed historical stock data to identify trends and evaluate model performance.

- Data modeling, forecasting, and analysis relevant to ESG risk assessment.

Image Classification Using Satellite Data

-Developed a CNN-based model to classify satellite images (cloudy, desert, green area, water).

-Applied transfer learning for improved accuracy and computational efficiency.

- Feature extraction, ML model deployment, real-world data processing.

Sustainable Clothing Shopping Website

-Developed a full-stack web application enabling users to shop for sustainable clothing.

-Implemented features such as user reviews and ratings to enhance user engagement.

-Technologies used: HTML, CSS, and JavaScript, Node.js

-Demonstrates proficiency in building web-based applications and handling both frontend and backend development

Live Horse Betting Website

-Led a team to develop a dynamic betting website using the Django framework.

-Focused on robust backend functionality and intuitive frontend UI design.

-Technologies used: Django (Python), HTML, CSS, JavaScript.

-Demonstrates ability to manage full-stack development projects and work collaboratively in a team setting.

Experience

Software Development & Quality Assurance Intern Transputec Ltd Sept 2022 – June 2023

-Developed and executed automated test cases using Selenium & C#, improving test coverage by 85%.

-Collaborated with teams to resolve 100+ software defects, enhancing product reliability.

-Worked in an Agile (SCRUM) environment, optimizing development workflows.

-Assisted in data validation and automation, ensuring consistency across system modules.

Relevance: Python automation, data validation, Agile experience—essential for ML model deployment and ESG data pipelines.

Skills

-Programming: Python, SQL, JavaScript, C#

-ML/AI: NLP, LLMs (Llama 2, Langchain), TensorFlow, Keras, PyTorch, ARIMA, LSTMs, Autoencoders, Word Embeddings

-Data Engineering & MLOps: AWS, Docker, Flask, Pandas, NumPy, Spark, SQL, Data Pipelines

-Software Dev & Agile: React, Node.js, Django, Selenium, PyTest, Git, CI/CD, SCRUM, JIRA

Achievements

Brunel+ Awards: Bronze

2nd place in First year coding contest (UKIEPC)

Participant in Euro 2020 Chelsea Challenge 2.0, Chelsea FC Foundation

Certifications

Bright Network: Completed Google Coding Challenge Tech

Allies Network: Completed IBM Design program