Aminujjma

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Summary

Highly skilled AI/ML professional with expertise in Machine Learning (ML), Deep Learning (DL), and MERN stack development. Proficient in Python, PyTorch, Scikit-learn, and NumPy, with experience in Convolutional Neural Networks (CNNs), Generative AI (GenAI), NLP, Llama, LangChain, and Large Language Models (LLMs).

Education:

Netaji Subhash University of Technology, Dwarka 2020-2024
B.Tech.- Instrumentation and Control Engineering- **7.30 CGPA** Dwarka, Delhi

R.P.V.V. Sec-19, Dwarka 2019
Class XII- CBSE- **91%** Dwarka Sec-19

Experiences:

- **Knowledge Synonyms (**AI Engineer Trainee) Nov 2024 – Present
  - Developed and fine-tuned **NLP** models using **Python** and Hugging Face Transformers to create **an AI-powered chatbot** for real-time question-and-answer assistance.
  - Worked on recommendation engine leveraging **collaborative and content-based filtering techniques with Python, Pandas, and scikit-learn** to provide personalized learning paths.
  - Designed and implemented an adaptive quiz system using **reinforcement learning** with **PyTorch** and **Stable-Baselines3** to dynamically adjust question difficulty based on user performance.
- **Qspiders (Training) –** Software Developer (MERN) June 2024 – Sep 2024
  - Developed and maintained web applications using **MERN Stack (MongoDB, Express.js, React.js, Node.js)**, ensuring high performance and scalability.
  - Utilized **frontend technologies (HTML, CSS, JavaScript)** to build and optimize web applications.
  - Designed, implemented, and optimized **MongoDB databases** for efficient data storage and retrieval.
  - Created and implemented **RESTful APIs** using **Node.js and Express.js**, enabling seamless communication between frontend and backend systems.

Projects:

- **Movie Recommendation System**
  - **Analyzed** a Kaggle dataset to develop a personalized movie recommendation engine, utilizing **NumPy and Pandas** for advanced data preprocessing, resulting in a 40% increase in user engagement.
  - **Built** and **optimized** machine learning models with **Scikit-learn**, implementing **collaborative and content-based filtering** for accurate recommendations.
  - Improved model scalability and performance through hyperparameter tuning, delivering enhanced prediction accuracy.
- **Codebasic Q&A**
  - **Developed an LLM-Based Q&A System**: Designed and implemented a Langchain-powered solution to automate student query handling for Codebasics.io, enhancing operational efficiency.
  - **Applied NLP and Machine Learning Techniques**: Utilized Huggingface embeddings and FAISS for advanced natural language processing and optimized knowledge retrieval.
  - **Built an Interactive Web Interface**: Created a Streamlit-based UI to deliver real-time answers, improving user engagement and system usability.
- **AnimeFaceGAN**
  - **Trained** a DCGAN model in **PyTorch** to generate anime-style faces using the **Anime Face Dataset**, utilizing **GPU** for efficient training.
  - **Designed** and **trained** Generator and Discriminator networks, optimizing with **Adam optimizer** and **Binary Cross-Entropy Loss**.
  - **Visualized** training progress through generated images, loss curves, and showcased outputs via a video presentation.

Skills:

- Data Structures and Algorithms (DSA)
- Object-Oriented Programming **(**OOPS**)**
- OPERATING SYSTEM
- **Tool/platform:** Git, GitHub
- Solved 550+ questions on LeetCode and other platforms

• **AI/ML:** NumPy, pandas, matplotlib, sklearn, PyTorch, CNN, ANN, deep learning, TensorFlow, NLP, GenAI, LLM, llama, langchain
• **Programming Languages:** python, C++, JavaScript
• **Web development**: HTML, CSS, Tailwind, React.JS, Node.JS
• **Database:** MongoDB, SQL, DBMS
• **Cloud:** AWS (SageMaker and S3 Bucket)

Certifications:

- Certified in Supervised Machine Learning: Regression and Classification by Stanford University through Coursera.