Himanshu Srivastava

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EDUCATION

Noida Institute Of Engineering And Technology   July 2024
B.Tech. in Computer Science and Engineering (Specialization: AI/ML)

WORK EXPERIENCE

TwoWaits Technologies Pvt. Ltd   July 2022 - August 2022
Machine Learning Scholar Intern
- Performed Exploratory Data Analysis (EDA) on the Netflix dataset, extracting insightful patterns and trends.
- Developed and implemented algorithms such as Linear Regression, Decision Trees, and K-Means Clustering.
- Acquired valuable skills and practical experience contributing to the success of data-driven projects.

SKILLS

Programming Languages: Python, Java, SQL, BASH Scripting
Libraries & Frameworks: TensorFlow, Scikit-Learn, FastAPI, Firebase,Pandas,Numpy,Selenium
Databases & Tools: MongoDB, Docker, Git, Linux
Areas of Expertise: Deep Learning, Natural Language Processing, Computer Vision, Data Engineering, MLOps

CERTIFICATIONS

Getting Started with AI	Intro to Deep Learning & Neural Nets
NLP with Attention Models	Building AI Chatbots
NLP with Sequence Models	Data Descriptors & Distributions
ML Foundations: Case Study	Intro to NoSQL Databases
ML with Python	Intro to ML

PERSONAL PROJECTS

Anime Recommender System | *Deep learning, Docker, FastAPI, MongoDB*   Present
- Developed anime recommender system using cosine similarity and FastAPI, achieving an accuracy of 85% in predicting user preferences.
- Utilized Docker for containerization and MongoDB for scalable data storage.

Intent Classification with BERT | *Deep learning, NLP, FastAPI*
- Fine-tuned a BERT model for intent classification with an F1 score of 0.92.
- Implemented data preprocessing and model training pipelines in Python.
- Deployed the model using FastAPI for integration into a conversational AI system.

Machine Learning for Disaster Response | *Deep learning, Firebase, MongoDB*
- Built an image classification model to assess disaster severity with 92% accuracy.
- Integrated the model with Firebase for secure user authentication and data management.
- Contributed to a community project aimed at efficient disaster response and resource allocation.

Intelligent Document System | *Deep learning, NLP, Information Retrieval*   May 2023 - Present
- Developed an end-to-end system to answer natural language questions based on code documentation using large language models (LLMs) and natural language processing (NLP) techniques.
- Preprocessed and fine-tuned an LLM on a large corpus of code documentation, enabling it to understand and reason about programming concepts and APIs.
- Implemented information retrieval and ranking algorithms to identify relevant code snippets and documentation passages for a given query.
- Integrated the LLM with a retrieval system to generate accurate and context-aware answers to user queries.
- Evaluated the system's performance on benchmark datasets like CodeXGLUE and CoQA, achieving an F1 score of 0.88 and ROUGE-L score of 0.75.