Pavan Chhalani

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EDUCATION

Artificial Intelligence and Computer Science (Honors), University Of Edinburgh

2020 – 2024
Edinburgh, UK

Courses: Algorithms and Data Structures, Reasoning and Agents, OOP in Java, Machine Learning, Natural Language Processing, Software Engineering & Professional practices, Computer Systems, Mobile Robotics.

WORK EXPERIENCES

Software Engineer, DataAnnotation Tech

02/2024 – present
Edinburgh, UK

- Developed and enhanced AI chatbots' coding capabilities by creating and solving diverse programming challenges in Python, JavaScript, and C++. This ensured chatbots could understand and generate accurate code snippets.
- Evaluated and refined AI-generated code for correctness and performance, significantly increasing model reliability and user satisfaction.
- Crafted detailed, high-quality explanations for coding solutions to assist in training AI models, achieving the project goal of superior AI understanding and interaction.

Frontend Development Intern, BSR Corporation Pvt Ltd.

06/2023 – 07/2023
Jaipur, India

- Developed and implemented frontend functionalities for a fleet management system, increasing internal operations' efficiency.
- Participated in code reviews and debugging sessions, identifying and resolving software bugs, improving the overall stability of the fleet management system.

Software Team Head, University of Edinburgh

09/2022 – 03/2023
Edinburgh, UK

- Working on using Modern Portfolio Theory to diversify the portfolio by finding low-correlation assets.
- Applied trading strategies in an algorithm to trade the equity market.

Computation and Logic Tutor, University of Edinburgh

09/2022 – 01/2023
Edinburgh, UK

- Gave in-person instruction to 10 Informatics students to help them acquire excellent knowledge of functional programming and computational logic.
- Assisted in assembling lesson plans to administer to students and keep them on track with assignments
- Kept records of academic performance and applied this information to address areas of improvement for students.

PROJECTS

MarketMood,, Python, PySpark, SparkNLP 🔗

Created a Model to make stock research easier. The model aimed to filter out stocks based on the latest news and updates received about the company. Acquired, Preprocessed and labelled (using yfinance) over 10,000 Articles, and Trained Model to predict the stock movement with 60% accuracy.

ALAN Smart Alarm Robot,, React Native, C++, Python 🔗

Managed a team of 8 developers throughout the project lifecycle, overseeing daily sprints and ensuring project milestones were met on time and within budget. Led efforts to improve software performance, which resulted in a 50% decrease in system crashes and a 15% increase in user adoption.

SignSpeak Chrome Extension,, Python, Tensorflow, NextJs

Created a Real-Time hand sign detector model with Tensorflow to help people with speech impairment use video conferencing platforms (e.g., Zoom). Collected and labelled images of standard hand signs, reaching 98% accuracy.

Sorting Algorithms Visualizer,, React, JavaScript, CSS 🔗

Created and hosted a React application to help new learners grasp sorting algorithms and Visualized MergeSort, Insertion Sort, Heap Sort, etc., in a bar graph format.

Human Activity Recognition App,, Tensorflow, Python, Kotlin(Android) 🔗

Built an application that parses live movement data from a Respeck and a Nordic Thingy sensor using Bluetooth Low Energy (BLE). Trained and deployed a Tensorflow model to the app using 44 human activities and 97% accuracy.

CERTIFICATES

Edinburgh University Trading and Investment - Junior Analyst Course 🔗

Equity research, DCF valuation, comparable company analysis

SKILLS

Programming: Python, Javascript, TypeScript, React Native, Java, C/C++, PHP, MySQL, Flutter.
Machine Learning Techniques: PyTorch, Tensorflow, PySpark, Keras, Databricks, Scikit-Learn.
Tools: Git, GitHub Actions, Firebase, GitLab CI/CD, GCP, Trello, Jira, Confluence.
Hackathons: Hack the Burgh (2024), ETH London (2023), pwnED3 (2023), AdaHack (2022), Hack the Burgh (2023), pwnED2 (2022)