

Advit Ahuja

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Experience

ServiceMob

April 2025 – July 2025

Internship - Machine Learning Engineer

California, Irvine

- Architected a **Retrieval-Augmented Generation (RAG)** framework for domain-grounded responses.
- Developed **hallucination-mitigation** techniques which were factually aligned with source documents.
- Programmed Multivalent Ontological Blocks which transformed noisy customer interactions into interpretable insights.

RE:JOIN

August 2023 – April 2024

Software Engineer - Mobile App Developer

Remote

- Utilized **Flutter** and relevant tools (Android Studio, Dart, Xcode) for development given specifications set via Figma.
- Incorporated screens and widgets with seamless integration using dependency injections improving reusability by 30%.
- Leveraged services, repositories, and **GraphQL** to communicate with the database ensuring a robust and responsive UX.

Projects

Neutron and Muon Source - Dissertation (82%) | Python with Jupyter Notebook

September 2023 - April 2024

- Implemented various machine learning algorithms from **scikit-learn** to predict ion-source failures in a particle accelerator. Analyzed results and visualized performance with **Matplotlib**.
- Achieved a high 90% in failure prediction accuracy. Presented findings to the team at **UKRI** through the dissertation report, screen cast and further presentations, influencing their decision to invest further with this project.

NLU - Evidence Detection | Python with Jupyter Notebook

March 2024 - April 2024

- Classified unseen claim-evidence pairs using two approaches, a traditional machine learning method (Logistic Regression) and a Deep Learning approach (CNN with Attention Layer).
- Preprocessing: stop words and special characters, tokenization and lemmatization; lowest Levenshtein distance. Both models outperformed the given baselines with accuracies above 80%, Macro-Precisions above 75%.

Deep Neural Networks (DNN) for Vision Recognition | Python with Google Colab

March 2024 - April 2024

- Modeled and then fine tuned a Convolution Neural Network (**CNN**) to classify images from the CIFAR-100 dataset and produced a scientific report of the experiments given my model.
- Plotted the accuracy against the epochs for different dropout rates, pool sizes, kernel sizes, and Learning Rates in order to tune the CNN; this resulted in a 14% increase in accuracy in comparison to the baseline.

Education - United Kingdom

The University of Manchester

September 2021 – July 2024

Grade: 2:1

BSc(Hons) Computer Science

Bedford School

September 2019 – June 2021

Mathematics: A*; Computer Science: A*; Economics: A

A levels

Technical Skills

Languages: Python, Java, C, C++, C#, Haskell, HTML/CSS, JavaScript, NodeJS, MySQL, GraphQL, Dart, Flutter

Developer Tools: Visual Studio Code, Xcode, Anaconda, Jupyter Notebook, Eclipse, Android Studio, Figma

Achievements and Awards

Coursework Competition: Most Impressive Design and Implementation for the First Year Team Project.

GDSC AI/ML Co-Lead: Co-Lead for the AI/ML Google Developer Student Club.

Reply Challenge: Participated in an European hackathon.

Harvard's MOOC: Undertook Harvard's MOOC *Using Python for Research*.