

ESHAN JAIRATH

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CAREER HIGHLIGHTS | SUMMARY

Intelligent, ambitious, and talented engineer with exceptional computer science skills worked for small start-ups in Artificial Intelligence and software engineering departments. Gained experience in managing teams and building applications from scratch by working on a variety of small and large-scale projects.

EDUCATION

- MSc. Artificial Intelligence, Northumbria University, Newcastle, United Kingdom, 2021- 2022.
- B. Tech. Computer Science Engineering, SRM University, Delhi NCR, India, 2016-2020.

WORK AND RESEARCH EXPERIENCE

Academic Research, Northumbria University, Newcastle, (July 2022- Sept 2022)

- Conducted academic research on flood extent prediction using geospatial data extracted from the google earth engine and build a machine-learning regression model which acquired an NSE (Nash-Sutcliffe model efficiency coefficient) of 0.83 and RMSE of 0.27.

Junior AI Engineer, Print it Out, New Delhi, India, (May 2021 – Aug 2021)

- Gathering the necessary facial data, pre-processing it, training, testing, and evaluating the models in real-world scenarios by detecting the faces of the team members in real time.
- Boosted the Accuracy of the face detection algorithm to 91% on the testing data by choosing the right configuration of the necessary computer vision model and certain image pre-processing techniques.

Software Engineer, Pixxmo, New Delhi, India, (Nov 2020 – May 2021)

- Developed system analysis reports and system designs in accordance with the requirements of the projects after closely collaborating with clients and various teams.
- Reduced the workload of the entire team by 50% by employing Third-party cloud APIs in the systems and building software/Applications according to the finalized system designs and reports.

SKILLS-

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| • Programming - Python, JavaScript. | • Data Visualization – Microsoft Power BI. |
| • Data Structures and Algorithms. | • System Analysis and Design |
| • Web - React.js (Redux and context API), Node, Express.js, REST API. | • Problem Solving. |
| • Database - MongoDB, SQL, Firebase. | • Machine learning & deep learning – Scikit-learn, TensorFlow, Pandas, computer vision, Neural Networks, NLP, Reinforcement learning, ELT pipelines. |
| • Cloud - Microsoft Azure | |
| • Version Control – Git and GitHub | |

CERTIFICATIONS -

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| • Azure DP-100 (02/2023) – Microsoft | • Python programming (03/2020) -Udemy |
| • Azure AI-900 (05/2022) – Microsoft | • Machine learning (06/2021) - Udemy |
| • Azure DP-900 (06/2022) – Microsoft | • Deep learning (08/2021) - Udemy |

PROJECTS-

- A web application that uses a machine learning classification model to assist doctors and medical teams in predicting Heart Failure for a patient. The Flask web application is hosted on Heroku. [Project Link](#), [GitHub Repo](#).
- A CNN (Convolution Neural Network) model trained on the CIFAR-10 dataset, which gives 86% accuracy on the test set and manages to predict random images from every category in the dataset correctly. [GitHub Repo](#).
- A fraud detection system using SOM which gives 87% accuracy in identifying credit card fraud and returns the customer IDs of the fraudulent customers. [GitHub Repo](#).
- React web Application that uses TMDB API to showcase the latest movies and TV shows. [Project Link](#), [GitHub Repo](#).
- Instagram clone named Pics Watch made with react.js and firebase for user authentication. [Project Link](#), [GitHub Repo](#).