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, **Grade - 2:1**, (2021 – 2022).
- B. Tech. Computer Science Engineering, SRM University, Delhi NCR, India, **Grade – First Class**, (2016 – 2020).

WORK AND RESEARCH EXPERIENCE

AI Innovation Engineer, IMIS Global Limited, Newcastle, (Feb 2023- Present)
- Designing enhanced capabilities to smooth the movement of shipping at local, regional and ultimately global levels.
- Innovating the use of historical and real-time data in developing predictive and more reliable models.
- Developing AI and data work outputs and system enhancements according to the key aims of the Organization.

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.

Software Engineer, Pixxmo, New Delhi, India, (Nov 2020 – May 2021)
- Developed and maintained software applications for a range of clients in the public and private sectors.
- Contributed to the design and implementation of software solutions, utilizing Agile methodologies.
- Worked with cross-functional teams to ensure high-quality delivery of software products.
- 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-

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

CERTIFICATIONS -

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