

# 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.

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## WORK AND RESEARCH EXPERIENCE

### AI 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.
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## 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).
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## SKILLS-

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

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| • <a href="#">Azure DP-100 (02/2023) – Microsoft</a> | • <a href="#">Python programming (03/2020) -Udemy</a> |
| • <a href="#">Azure AI-900 (05/2022) – Microsoft</a> | • <a href="#">Machine learning (06/2021) - Udemy</a>  |
| • <a href="#">Azure DP-900 (06/2022) – Microsoft</a> | • <a href="#">Deep learning (08/2021) - Udemy</a>     |
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## 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](#).