

# 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).

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## 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 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.

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## SKILLS-

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| <ul style="list-style-type: none"><li>• <b>Programming</b> - Python, JavaScript.</li><li>• <b>Data Structures and Algorithms.</b></li><li>• <b>Web</b> - React.js (Redux and context API), Node, Express.js, REST API.</li><li>• <b>Database</b> - MongoDB, SQL, Firebase.</li><li>• <b>Cloud</b> - Microsoft Azure</li><li>• <b>Version Control</b> – Git and GitHub</li></ul> | <ul style="list-style-type: none"><li>• <b>Data Visualization</b> – Microsoft Power BI.</li><li>• <b>System Analysis and Design</b></li><li>• <b>Problem Solving.</b></li><li>• <b>Machine learning &amp; deep learning</b> – Scikit-learn, TensorFlow, Pandas, computer vision, Neural Networks, NLP, Reinforcement learning, ELT pipelines.</li></ul> |
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## CERTIFICATIONS -

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| <ul style="list-style-type: none"><li>• <a href="#">Azure DP-100 (02/2023) – Microsoft</a></li><li>• <a href="#">Azure AI-900 (05/2022) – Microsoft</a></li><li>• <a href="#">Azure DP-900 (06/2022) – Microsoft</a></li></ul> | <ul style="list-style-type: none"><li>• <a href="#">Python programming (03/2020) -Udemy</a></li><li>• <a href="#">Machine learning (06/2021) - Udemy</a></li><li>• <a href="#">Deep learning (08/2021) - Udemy</a></li></ul> |
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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](#).