Contact

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www.linkedin.com/in/agastya-raj (LinkedIn)

Top Skills

Deep Learning
Computer Vision
Natural Language Processing

Languages

English (Native or Bilingual) Hindi (Native or Bilingual) Chinese (Elementary)

Certifications

Structuring Machine Learning Projects

Neural Networks and Deep Learning

A1 Level in Mandarin

Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization

Honors-Awards

Best MT Project Award
Analyst of the Quarter Q1-2021
SVP Star of the Quarter Q2-2021
Analyst of The Quarter Q4-2021
American Express Analyze This

Publications

A Novel Information Theoretic Cost Measure for Filtering Based Feature Selection from Hyperspectral Images

Agastya Raj

Researcher

Dublin, County Dublin, Ireland

Summary

Researching intelligent systems in optical networks. Previously worked as a Fraud Risk Analyst at American Express for 3 years. Graduated with a Bachelor's in Materials Engineering from IIT Roorkee in 2019.

Experience

CONNECT Centre

Researcher

April 2022 - Present (3 years 3 months)

Dublin, County Dublin, Ireland

American Express

2 years 11 months

Assistant Manager - Credit and Fraud Risk November 2021 - April 2022 (6 months)

Risk Analyst - Credit and Fraud Risk June 2019 - October 2021 (2 years 5 months) Gurgaon, India

- Responsible for managing new accounts fraud controls for American Express products in US market
- Developed machine learning based modeling solutions to identify fraudulent credit card applications attempted by lost or stolen identity
- In charge of leading innovation and development in modeling techniques to prevent fraudulent applications
- Found loopholes in the system and then assessed its potential strength and implemented controls so that the vulnerability of the system can be minimized

MathLogic
ML Research Intern
May 2018 - July 2018 (3 months)
Gurgaon, India

- Built attention based sequential learning solutions for time series data, improving existing performance by a significant margin.
- Implemented and optimised Sequence to Sequence architectures and built a custom pipeline to experiment and develop end to end machine translation tasks in Pytorch.
- Experimented with the use of Generative Adversarial Networks in semisupervised learning, and improved the training of classifiers with insufficient data.

Education

Trinity College Dublin

Doctor of Philosophy - PhD, Computer Science · (March 2022 - March 2026)

Indian Institute of Technology, Roorkee
Bachelor of Technology, Metallurgical and Materials
Engineering · (2015 - 2019)