
CAREER OBJECTIVE

Result-driven Data Scientist with over 6 years of expertise in leveraging advanced analytics and machine learning techniques to drive operational efficiency, enhance accuracy, and optimise internal data processing. Seeking a challenging role where I can utilise my expertise in developing robust data regression models, employing predictive data modelling approaches, and conducting comprehensive data analysis to extract actionable insights and implement innovative solutions for complex business challenges.

PROFESSIONAL EXPERIENCE

Meta

Dublin, Ireland | May 2022 - Current

Business Tech Analytics - Automation Developer | Global Operations

- Utilised Haskell to create new signals and leveraged PyTorch to develop a scalable sequential Artificial Neural Network classifier. Automated the process of labelling violating content, **potentially saving \$1.5M annually**.
- Implemented Python-based Spam Detection and Enforcement automations on Facebook, resulting in a 500% increase in bad actor coverage and **saving 30% of manual review hours of fake accounts**.
- Collaborated with business stakeholders to implement automations using SQL and in-house tools. Successfully blocked mass scripted accounts from watching Reels on Facebook, projected to **save \$1.2M annually in payouts to responsible creators**.
- Led a team of 8 FTCs in developing processes and guidelines for identifying signals, facilitating rapid onboarding of new contractors and enhancing the precision and effectiveness of newly launched automations.

HSBC

Bengaluru, India | Jan 2021 - Apr 2022

Analyst - Automation & Analytics | Compliance Assurance & Financial Crime

- Developed a Bidirectional Deep Learning model with dropout for classifying customer feedback into queries and complaints, **resulting in a 20% reduction in misclassification rate**, provided automated solutions across various regions.
- Utilised pre-trained BERT model with TensorFlow and Huggingface libraries to accomplish Named Entity Recognition (NER) task. This model accurately predicted predefined complaint categories, enabling precise analysis and decision-making.
- Worked closely with the engineering team to integrate the NLP models into existing products by writing and reviewing codes with version control in Git.

Equipped AI (formerly, AnaCap Global Services)

Noida, India | Nov 2019 - Nov 2020

Model Development Analyst | Data Analytics

- Developed and implemented underwriting and pricing models for investment portfolios leveraging advanced machine learning techniques in R. Deployed the models using Docker and R shiny for a streamlined dashboard, significantly reducing turnaround time and operational expenses associated with bidding and biannual revaluation process.
- Utilised web scraping techniques to extract real estate data, enabling the identification of valuable insights. Employed KNN clustering to segment secured loans, automating the process and delivering a **15% enhancement in the accuracy of current market valuations** compared to previous years.

PricewaterhouseCooper (Pwc)

Gurgaon, India | Apr 2019 - Nov 2019

Consultant | Data & Analytics

- Developed approach to simplify data integration processes and standardise data feeds across systems using Azure portal, **reducing data latency from 8 days to 1 day**.

AnaCap Financial Partners

New Delhi, India | Apr 2017 - Apr 2019

Senior Data Analyst

- Led a team of 4 Analysts to create an ETL system that pooled data from various sources to a staging area, transformed, and loaded it into a data warehouse using SQL, providing 90% of the information executives use to make investment decisions.
- Generated statistical reports and visualisations using Power BI, providing key insights with a dashboard on portfolios of stressed loans, resulted in **saving 10 hours per week of manual reporting work**.

Education

Cranfield University | Master's Degree

Bedford, United Kingdom | Sep 2015 - Sep 2016

Master of Science - Computational Fluid Dynamics (Aerospace Major)

Amity University | Bachelor's Degree

Noida, India | Jun 2009 - Jun 2013

Bachelor of Technology - Aerospace Engineering