

## Professional Profile

- Masters' Degree in Computer Science (GPA 1.1, First Class Honours), currently a Data Scientist at Munich Re Automation Solutions (Dublin), with more than 8 years' experience in Analytics and Data Scientist roles in multiple sectors.
- Excellent communication skills, highly organized and with significant levels of attention to detail, observation, and outstanding IT analytical and troubleshooting expertise.
- Python Expert with a proven track record in data analysis and technical roles, I am solution focused, people centred and proactive in creatively resolving problems. I consistently follow through with precision and meticulousness. I pride myself on my ability to conquer tasks with excellent concentration and focus.
- A skilled multi- tasker who is a technical specialist, strategic and operational. I have the capacity to process a tremendous amount of facts, data and information and communicate related analysis with clarity and purpose. Possessing an energetic work ethic with the capacity to remain attentive to team dynamics, I am skilled at nurturing and maintaining relationships while balancing a practical, no- nonsense attitude. I thrive in high energy, fast- paced environments and take responsibility, organizational commitments, and accountability very seriously.

## Key Skills and Core Competencies

**Expert : SQL. Python. Computer Vision Expert. Data Science frameworks. Deep Learning. ML algorithms.**

**Highly Proficient : Tableau. R . Object Oriented Programming.**

Statistical Testing / A-B Testing. Numpy. Pandas. Scikit. Tensorflow. NLP. Image Analysis. CNN. RNN. LSTM. OpenCV.

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## Education

Sep 2019- Sep 2020	Technological University of Dublin (DIT), Ireland.	
<b>Qualification Obtained:</b>	Master's Degree in Computer Science. <b>(First Class Honours,1.1)</b>	<b>NFQ Level 9.</b>
<b>Research Paper:</b>	'Less is More when Applying Transfer Learning to Multi-Spectral Data', First Author, <b>Computer Vision research paper published</b> in proceedings of AICS 2020, Ireland. Proceedings can be accessed here - <a href="http://ceur-ws.org/Vol-2771/">http://ceur-ws.org/Vol-2771/</a> , the full paper can be accessed here - <a href="http://ceur-ws.org/Vol-2771/AICS2020_paper_50.pdf">http://ceur-ws.org/Vol-2771/AICS2020_paper_50.pdf</a>	
April 2005- April 2009	Panjab University, Chandigarh, India.	
<b>Qualification Obtained:</b>	Bachelor's Degree in Computer Science. <b>(2.1)</b>	<b>NFQ Level 8.</b>

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## Experience

Dec 2020- Present                      Munich Re Automation Solutions, Ireland.  
**Position:**                      **Data Scientist.**                      Tools: Python, SQL Server, R programming, Tableau

Duties:

Designing and developing the next generation AI based Automated Underwriting solution called Predictor and for Life and Health Insurance industry. It enables swift and end-to-end deployment of predictive models in the production pipeline.

Handling Predictive model deployment and operations in production for two major Southeast Asia insurance clients. Building Data Science dashboards in Tableau to support and monitor the offering. Leveraging strong knowledge of model building, AI Explainability in model deploying and monitoring for clients.

Daily work includes designing processes around putting Predictive models in underwriting pipelines, finding insights in underwriting data to solve interesting business problems, interacting with cross-functional partners like data engineers, DevOps partners, customers (from across the world - EMEA, APAC, America regions), regional project management teams, sales teams, and legal teams.

I am also involved in project designing, requirement scoping, demonstrating data science products and capabilities to clients, giving training to regional and sales teams of data science product my team is building and much more.

June 2020- Dec 2020                      ADAPT Centre, Ireland (Technological University Dublin (TUD)).

**Position:**                      **Research Assistant.**                      Tools: Python, Tensorflow 2.0, Keras, node.js

Duties:

Research and collect data through research methodologies, literary research, structured interviews, or user research methodologies. Applying Computer Vision principles to solve problems in Remote Sensing or Satellite Imaging fields. Interpret, synthesise, and analyse data, conducting statistical tests, and publishing research. Schedule organise and report on the status of research activities.

Develop a Video Chat web application using node.js, to enable other Researchers to conduct their experiments / interviews / surveys remotely using animated Avatars.

Write and edit materials for publication and presentation, guided by Dr. Robert Ross, Senior Lecturer, Technological University Dublin.

July 2018- July 2019                      Dunnhumby, Gurgaon, India ( Customer Data Science- Multiple Sector- Global)

**Position:**                      **\*Lead Data Scientist/ Analyst.**                      Tools: Python, PySpark, Postgresql

Duties:

Build strong relationships with internal contacts & external clients to ensure full understanding of client challenges, growth strategy and agreed measures of success for assigned projects.

Investigate and implement the most appropriate analytical solution for each project, benchmarking the re-use & further development of global solutions or code written by others.

Deploy or mentor the teams to deploy Data Science models and market products on chosen tech stack for efficient and cost-effective delivery. Lead and execute projects that distil complex problems into compelling insights that resonate with clients and lead them to action.

Spot opportunities to grow client engagement by proactively solving client's strategic questions, using a mix of product knowledge and Advanced AI techniques that support executive decision making and call to action.

Participate in client meetings as required to present methodology and solutions through effective story telling techniques.

Work closely with global products team to provide market feedback for enhancing existing product offerings or augmenting the catalogue with a market-based product that can become global offering.

June 2013- June 2018                      Bank of America, Gurgaon, India.

**Position:**                      **\*\*Customer Feedback Analyst.**                      Tools: Python, R programming, SQL server, ETL tools

Duties:

Develop and implement initiatives to improve BOA customer services, analysing and summarising customer issues in order to prepare appropriate solutions to drive improvement agendas across BOA call centres.

Collaborate cross functionally with internal departments and call centres across America, as well as the BOA client base to develop processes to support improvement agendas, streamline internal procedures, maximising business performance.

Test and administer new, defined procedures, analysis and report generation and exception processing.

Design and deliver/ conduct training (in Tableau and Python 2.2) to teams regarding procedural, technical and operational changes.

Perform data cleaning and data preparation steps to prepare input data for SVM algorithm to perform for sentiment analysis, using LDA for topic modelling.

June 2010- June 2013                      Tech Mahindra, Pune, India.

**Position:**                      **Software Engineer.**                      Tools: PL/SQL, SQL

Developed ETL workflows in PL/SQL for data load and data transformation in order to prepare reports quarterly and yearly for business stakeholders.

**\*Led a team of applied data scientists. \*\*Started working as a software Engineer, progressed to the position of Python Analyst in March 2015 and was promoted to the role of Customer Feedback Data Analyst ( worked on NLP imperative for Bank Of America) in July 2016.**