Curriculum Vitae
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Professional Profile

- Masters' Degree in Computer Science (GPA 1.1, First Class Honours). Currently a Data Scientist at Munich Re Automation Solutions, MRAS (Dublin), with more than 7 years of experience in Data Science and Data Analytics roles in multiple sectors. I have a Bachelor's degree in Computer Science engineering as well, with a GPA of 2.1.
- I have excellent communication skills and a very good experience in connecting with cross-functional teams like engineering, marketing, DevOps, and regional implementation teams. I often have to present AI-based products and analyses to customer executives. In my current role, I am tasked to build relationships and influence strategic AI decisions for the APAC region client fulfilment teams and clients themselves. Because of this, my company is effectively able to set up multiple AI product sales in the region and has several POCs currently running with different clients and use-cases in the region.
- I have experience in initiating and driving internal and client projects to completion with minimal guidance. For example, I am leading a small team in building one module of a large AI Platform tool that is targeted to complete in Q4 '22. This product is in its very early stages and once implemented, will enable swift MLOps functionalities for future AI product implementations for the company.
- I am always comfortable with technical as well as functional discussions with the varying audience. I have been in charge of scoping technical requirements from clients by leading day workshops as well as imparting technical training on our finished products and professional services at the time of product delivery.
- Another product that I am working on right now is the ML-based automated underwriting engine, which is already successfully deployed for multiple insurance clients. This product has given me a chance to work on a lot of facets, such as ML monitoring, dashboard designing, client interfacing, ML training, and so on.

Key Skills - Expert : Python. SQL. Computer Vision Expert. Deep Learning. NLP. ML algorithms. | **Highly Proficient :** JAX. Tableau. R . Object Oriented Programming. Statistical Analysis. A-B Testing. Tensorflow2.0. Keras. Pytorch.

Education

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

Experience

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

- Designing and developing the next generation AI based Automated Underwriting solutions called Predictor and AI Platform for Life and Health Insurance sector. They enable swift and end-to-end deployment of predictive models in the client's production underwriting pipeline.
- Handling Predictive model deployment and maintenance in production for two major Southeast Asia insurance clients. Building Data Science dashboards in Tableau. Leveraging strong knowledge of ML and domain in model deployment for global clients.
- Daily work includes building Predictive models, 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, legal teams and so on.
- 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 products my team is building and much more.

June 2020- Dec 2020   **ADAPT Centre, Ireland** (Technological University Dublin - TUD).
Position: Research Assistant (ML internship).   Tools: Python, Tensorflow 2.0, Keras, node.js
- 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/angular.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 (A Tesco UK - Customer Data Science Unit).
Position: *Lead Data Scientist/ Analyst.   Tools: Python, PySpark, Postgresql
- 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.
- Deploy or mentor the teams to deploy Data Analytics solutions 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.
- Work closely with the global products team to provide market feedback for enhancing existing product offerings or augmenting the catalogue with a market-based product that can become a global offering.

June 2013- June 2018   **Bank of America**, Gurgaon, India.
Position: **Customer Feedback Analyst.   Tools: Python, R programming, SQL server, ETL tools
- 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 ML models, 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. References available on request.