

# Mohit Monpara

✉ [monpara.mohit@gmail.com](mailto:monpara.mohit@gmail.com)

in/ [Mohit-Monpara/](#)

☎ +61 410 280 423

🌐 [Mohit-Monpara \(Portfolio\)](#)

## Professional Summary

- Data Scientist with 4+ years of experience in building data-intensive applications, addressing complex architectural and scalability challenges across diverse industries. Proficient in predictive modeling, data processing, data mining, and scripting languages like Python and R.
- Proven ability to leverage machine learning, statistical analysis, and data modeling to extract actionable insights and drive data-driven decision-making for high-impact business results.
- Hands-on expertise with Python, R, SQL, and cloud platforms (GCP) for developing predictive models, automating data pipelines, and managing large datasets in real-time environments.
- Skilled in advanced analytics techniques such as regression analysis, clustering, classification, and natural language processing (NLP) to solve complex business problems and optimize performance.
- Strong collaboration and communication skills, adept at working cross-functionally with product, engineering, and business teams, and translating data insights into clear strategies for technical and non-technical stakeholders.
- Ability to quickly grasp any new technology and concepts.
- Strong analytical, Software Development, and interpersonal skills.

## Skills

### Programming Languages

Python, R-language, Spark, SQL, PL/SQL,

### Framework & Visualization

Tensorflow, PyTorch, Keras

### Containerization & Orchestration Tools

Docker, Kubernetes, KubeFlow, Airflow

### Cloud Services

GCP – Vertex AI Services

AWS – IAM, VPC, EC2, S3, Lambda

## Work History

### Data Scientist

**Nov 2022 - Present**

*NewsCorp Pty Ltd*

- Developed actionable strategies to mitigate risks in decision-making while enhancing profitability by leveraging advanced data science techniques and insights.
- Spearheaded collaboration with management teams to define and address analytical needs, ensuring the seamless integration of data-driven insights into business operations.
- Designed and deployed advanced algorithms using Natural Language Processing (NLP) and Deep Learning models to generate predictive insights.
- Created predictive models to forecast page views, supporting newsroom strategies and improving content targeting.
- Conceptualized and piloted an internal application for stakeholders to extract valuable insights from proprietary platforms.
- Conducted in-depth research analysis, compiling data into professional presentations that highlighted key findings and optimization recommendations.
- Enhanced the accuracy and performance of the existing churn prediction model through retraining and optimization, thereby refining customer retention forecasts.
- Developing a Propensity to Subscribe model that integrates emerging trends and seasonal patterns, aligning closely with dynamic market behaviors and evolving customer preferences.
- Extensive experience utilizing Alteryx and GCP Vertex AI services for data analysis and machine learning workflows, driving innovation.
- Played an integral role in leading the successful migration of projects from Alteryx to Google Cloud Platform (GCP), significantly improving scalability, performance, and operational efficiency.
- Collaborated with cross-functional teams to transform complex datasets into actionable insights, empowering strategic decision-making.

## Data Scientist

Dec 2018 – March 2020

*Pax Republic/Plaetos Pty Ltd*

Apr 2021 – Oct 2022

- Develop an automated system using Natural Language Processing and Deep Learning models to generate the textual templates which provide significant insights to the customer about their company using the deep learning algorithms with more than 90% accuracy
- Built a deep learning model to identify the cultural dimensions of the company by analysing the annual reports and vision statements
- Streamlined feature selections and reformulating topic modelling using unsupervised learning and LDA modelling method with an accuracy of 85%
- Developed a sentiment model based on a transformer-based GPT-2 model to identify the important aspects related to the company
- Develop action plans to mitigate risks in decision making while increasing profitability by leveraging data science
- Comprehend and understand research paper and apply the working code for definitive usecase
- Used predictive models such as machine learning and various data mining techniques to predict the nature of the data
- Analyse complex problems and translating it into an analytical approach
- Derived actionable insights from massive data sets with minimal support
- Utilized analytical and technical expertise to provide insights and proposal to support business improvements
- Designed information retrieval (IR) algorithm with the help of various query expansion techniques and deep learning pre-trained models to extract information from a textual database
- Compiled research data and provide professional presentations highlighting finds and recommended optimizations

## Industrial Experience – Data Analytics

Jan 2020 – April 2020

*Monash Industrial Experience*

- Coordinated statistical data analysis, design, and information flow
- Identified and documented project constraints, assumptions, business impacts, risks and scope exclusions
- Evaluated consistency and importance of different business intelligence data against needs to determine optimal courses of action
- Synthesized current business intelligence data to produce reports and polished presentations highlighting findings and recommending changes
- Ensured the best practices for programming and code re-usability.
- Researched and recommended process improvements designed to mitigate operational and financial risk
- Developed reporting and insights for investor relations meetings
- Performed with high standards in a fast-paced environment with tight deadlines and limited supervision.
- Organized system infrastructure documentation and operating procedures, strengthening controls and enhancing overall performance

## Education

### Master of Science

*Data Science (Advanced Analytics)*  
*Monash University – Australia*

July 2016 – July 2018

### Bachelor of Technology

*Electronics and Communication Engineering*  
*Gujarat Technological University - India*

June 2011 – Aug 2015

## Professional Development

### Deep learning Specialization

*5-course specialization in Deep Learning focusing on building neural networks and ML projects. Courses includes NN, Structuring ML projects, CNN, Sequence Models, LSTM, Adam, Xavier/He initialization. Framework: TensorFlow and Keras.*