Rajat Katyal (He/Him)

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SUMMARY

Analytics Professional with over 4 years of Australian work experience in data lead roles (data science, analytics engineering and product analytics) and 4 yrs of Indian experience in business analytics and client management in Ad-tech startups.
Master's degree in Data Science @ University of Technology Sydney (Jan 2021) with multiple data science industry projects (NLP, Computer vision, predictive modelling) and research work @ UNSW (National Drug and Alcohol Research Centre)
Key Skills: Data Science, Data Analytics, Analytics Engineering, Business Intelligence, Client Management, Story telling
Tools: MS Office, SQL, Python, R, Shiny, Tableau, Power BI, Metabase, Git, AWS, GCP, BigQuery, DBT, SSIS, Azure, Snowflake

AUSTRALIA WORK EXPERIENCE

Data Scientist – Advanced Manufacturing Growth Centre, Sydney   Jun '23 – Present
- Reporting to COO, lead the data research and analytics services for govt. clients (using open and proprietary data) and assisted in securing contracts to deliver manufacturing projects of the order $xx mil.
- Using NLP and network charts mapped manufacturers, demographics with capabilities and ML models to identify potential manufacturers for key state initiatives.
- Managing organisation's data pipelines (ETL) using GCP for Storage, Fivetran for Extract, DBT (SQL) for transformations and Git Actions for Load (CI/CD) and PowerBi for dashboarding and sharing insights.
- Tech – GCP, DBT, SQL, BigQuery, Salesforce, Fivetran, Python, Github, PowerBi, Tableau

Data Analytics Engineer – NSW Cancer Institute , Sydney   Feb '22 – Mar '23
- Created dynamic dashboards to reflect the state of the various cancer cases within the state and for future planning (eg: Dashboard for flow of Patients to highlight healthcare facility gaps that need investments)
- Managed the ETL workflow for Cancer Institute NSW for various data pipelines (prevention, screening, diagnosis, treatment, clinical trials) and created documentation to show pipeline health in R markdowns.
- EDA, feature engineering for researchers and modelling patient outcomes for heatlcare costs.
- Tech - Azure, SQL, SSIS, Python, R, Power BI, Shiny, R Markdown

Data Scientist – Me&U, Sydney (QR Code based ordering app for bars and restaurants)   May '21 – Feb '22
- Tracked the customer journey and conversion funnel to identify drop off points and improve the conversion rates.
- Build data dashboards to track product metrics and account performance, and presented the key insights bi-monthly to the leadership team.
- Classified food and drink products and built a product recommendation engine to suggest what to order with your current selection of drinks/food.
- Tech - Snowflake, DBT, SQL, Metabase, Powerpoint, Python

Data Science Research – National Drug and Alcohol Research Centre, UNSW, Sydney   May '20 – Mar '21
- Tracked the crypto markets on the dark web and collected Illicit drug listings data using web scraping techniques.
- Classified and analysed the drug listings using Natural Language Processing and publishing research bulletins - Here
- Tech - Python (Selenium, BeautifulSoup, NLP, Classification modelling), R (visualisations)

DEGREE / EDUCATION	UNIVERSITY	YEAR
Master of Data Science and Innovation	University of Technology Sydney	Mar 2019 – Jan 2021

INDIA WORK EXPERIENCE

Business Development, Europe and Asia region – Chocolate Media Platform, Mumbai   July '17 –Jan '19
- Pitched, negotiated contracts and onboarded top Asian and Eastern European gaming publishers..
- Gathered key customer insights to improve product experience to compete with Google, meta and others.
- Represented chocolate media in key Business conferences in Europe and Asia – Gamescom, White Knights, Pocket Gamer, GDC.

Business Analyst, Key Account Manager – InMobi Technology , Bangalore   Oct '14 – June '17
- Managed Revenue/Relationship and negotiated contracts with the key media partners of the India region.
- Owned Business tracking for Revenue and key media metrics– Revenues (Gross/Net), Fill Rates, eCPM, CTRs, CPX
- Shared insights to capture the supply/demand inefficiencies in the network, brand campaign strategies to find target customers and performance campaign optimisation to meet campaign objectives.
- Consistently achieved regional revenue targets of the order **$ xx Million/year**
- Won several internal awards and was promoted to Partner Manger (key account manager)

ACADEMIC PROJECTS - DATA SCIENCE

NSW Police , Sydney   Jul '19 – Nov '19
- Built a Forensic **Image classifier and Object detector** using 10,000 forensic images provided for model training using convolutional neural networks.
- Hosted the model on their internal portal to be used for automated classification of new forensic images.
- Wrote an Introductory blog for Understanding Convolutional Neural Networks.

Faethm AI (Incubated under Australian Computer Society) , Sydney   June '19 – August 19'
- Worked on improving the decision tree models to break down jobs by skills and predict the future relevance of jobs for an organisation and the relevant occupations that could be trained for the job requirements of the future.
- Built a dynamic dashboard using Shiny to visualise the future of jobs and it's breakdown by skills.

SAP Digital Healthcare, Sydney   Jul '20 – Nov '20
- Built a Deep Learning model for early prediction of Parkinson Disease using spiral test - model v1
- Used Data Augmentation Techniques to counter overfitting and Lime for model interpretability

Other Data Science Projects:
- Exploratory data analysis for Diabetes Prediction (Python language): Link
- Text Mining (R language): Link

RESEARCH WORK

Trends in the availability and type of drugs sold on the internet via Crypto markets: Link   2020

True Random Number Generator using Fish Tank Image, International Journal of Computer Applications: Link   2013

DEGREE / EDUCATION	UNIVERSITY	YEAR
Bachelor of Engineering (Information Tech.)	University of Pune, India	Mar 2010- 2014