Pravir Ishvarlal | Curriculum Vitae

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Objective

Experienced data scientist with good presentation and interpersonal skills. Seeking to apply a thorough understanding of advanced mathematical concepts and extensive programming experience in positions related to Data Science and Development.

Skills & Abilities

Microsoft Word
Microsoft Excel
Microsoft PowerPoint
Microsoft Azure (Intermediate)
Google Analytics (Basic)
R/Python
Microsoft Power BI/Tableau/QlikView
Power Query/Power Pivot/Power View (currently enrolled for online courses)
SQL
SAS Enterprise Guide/SAS Base
PuTTY

Experience

Data Scientist

— Netcare

• AI/ML product development through regression, classification, and topic modelling in Python.

• Overseeing the development of data science and analytics projects and providing guidance on the development of these solutions.

• Solution development in Azure Data Factory, Databricks and ML Studio

Freelance Writer

Mar 2022 — present

— TA & Badira

• Writing articles related to Data, AI and Technology, and promoting these solutions.

• Visit the website here- viconet.co.za

Contributor

Dec 2022 — present

— Dalebrook Media

• In the process of writing articles and quotes for a biweekly newsletter related to Data and Technology,

Consultant:

June 2017 — Apr 2021

Data Science & Analytics/Applications Development/Data

— TransUnion

• Defined the product strategy and roadmap for implementing AI/ML data solutions. Responsible for promoting these data products and getting various stakeholder buy-in internally.

• Product development for projects related to the Credit, Fraud, Marketing and Automotive industries. This involved building and maintaining credit, lead and automotive scorecards and other data products for decision making.

• Developing compelling dashboards in Microsoft Power BI

• Developing web-scrapping tools in R for the acquisition of new data sources.

• Building and presenting algorithms using state of the art machine learning methods such as CART algorithms and Neural Networks in R to motivate a PoC for the introduction of machine learning algorithms in credit/lead scoring and probability of default (PD) calculations.

• Training and developing TransUnion's offshore team in Machine Learning methodologies and algorithms using the R programming language.

• Handling large, complex and sensitive datasets in different formats. Analysing and interpreting credit, demographic, educational and company data, producing clear and compelling reports for different audiences by developing code for analysis in R, QlikView, SQL and Ab InITIO.

- Selected by TransUnion management to represent the data department in compliance of the new POPI act.

- Coding, compiling, testing and implementing ETL applications in compliance with the Systems Development Life Cycle (SDLC) by utilizing various ETL components such as the Rollup, Scan, Join, Partition by Round Robin, Gather, Merge, Lookup etc.

Project Manager/Data Analyst/Analyst
— Plus 94 Research/Terra Firma Solutions/CorpActive

- Multiple contract positions held in various industries of the economy such as Business Management Consulting, Energy Efficiency Analytics and Market Research.

- Roles and responsibilities spanned Financial and Business Analytics, Data Analytics and Project Management.

- Technology stack experience included R, SPSS, SQL and Qlikview.

- Administration duties included time and budget optimization, expenditure controls, clear communication of timelines and updates, effective utilization of resources. Efficient and effective interaction and management of project members (call-centre facility, analysts, clients, etc) and providing appropriate guidance as required.

- Reporting on projects, providing feedback to the CEO on progress.

- Developed a research proposal for TIA that included the project methodology, pricing, and timelines. Presented and won the tender at a proposed price of over R3 million.

- Audited for the DTI campus in Pretoria and developed a complex financial model in Microsoft Excel that assisted senior auditors and accountants of the department in managing their transactions in a more efficient and effective manner.

- Consulted with senior members of ATNS and accurately mapped the business process into a transition matrix using entity relationship diagrams. Thereafter designed a database in MDS/MDM used to store big data sets.

- Researched various resorts/lodges in the Pilanesberg and Mafikeng area and used this information to better understand and critically assess competitor pricing in the area.

- Designed a unique mathematical model in R and Microsoft Excel for PwC and Dirapeng SOC Ltd that predicts accommodation prices for optimal Balance/Income Sheet requirements.

- Started an in-depth investigation into quality of water in the North-West Province. Project had to be terminated.

- Developing QlikView models for the analysis of various energy and power usages. In-depth analysis of large datasets for purposes of tariff and energy consumption reporting. VM and power factor calculations.

- Systematically assessing problematic energy areas within a small to medium business environment and recommending appropriate solutions and conducting financial assessments on each solution recommended that maximise the customer's return on investment.

- Lighting, heating, ventilation, air conditioning & cooling (HVAC), office and IT equipment, water heating and energy monitoring.

• Analysing client data to identify opportunities to drive cost savings to clients and suggesting technology applications to reduce energy costs.

• General tasks related to the installation and maintenance of onsite equipment for energy reporting. This included installing smart meters onsite in DB rooms.

Education

University of Johannesburg — B.Sc. Mathematical Sciences
Majors: Mathematics, Statistics & Economics

2010 − 2015

University of South Africa — B.Sc. (Hons)
Majors: Statistics

2017 − present

Courses completed; thesis submitted.

Communication

Johannesburg Stock Exchange (Guest Speaker): Bridging the gap between business & technology

Machine Learning Africa (Guest Speaker): Leveraging AI & ML to improve patient outcomes

DataFest 2023 (Guest Speaker): Data Science and AI in Healthcare

Awards

The Nerd Award: For being the most insightful into Machine Learning

PAT Award: Covid-19 Playbook Model Development

Short Learning Programs

AI for Medicine Specialisation

Energy Efficiency Management

Healthcare Technology in 4IR

Quantum Computing: Theory to Simulation & Programming

Deep Learning & Computer Vision A-Z

Machine Learning A-Z

Data Science A-Z

Power Bi A-Z

Python 2021