

# Aswesh Thrissur Anand (Ash Anand)

## Business Analyst

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### Professional Summary

- Data Scientist with 4 years of experience in machine learning, AI-driven optimization, and data engineering.
- Designed time-series demand forecasting models (XGBoost, Random Forest) and NLP-based customer sentiment analysis using LLMs.
- Built an Azure-based big data pipeline supporting a \$1M annual revenue account for a leading telecom giant.
- Delivered a 40% reduction in supply lead time for a leading retail firm.
- Experienced in leading and mentoring teams, building strong stakeholder relationships, and driving strategic decision-making

### Experience

#### Data Science Intern | Vision Verse Interactive Pty Ltd, Sydney

07/2024 – 11/2024

- Improved AI recommender system efficiency by implementing structured data management, including a UML-aligned data dictionary, after collaborating with IT to define key attributes
- Enabled more efficient data-driven decisions for product owners and clients by designing a Tableau dashboard wireframe improving key metric visualization

#### Decision Scientist | Mu Sigma Business Solutions LLC, Bengaluru

09/2019 – 01/2023

- To address inconsistent product availability across a leading retail firm's Western Europe stores, I analyzed historical sales data and identified key drivers of demand variability. I then developed a time-series machine learning model for size-level demand forecasting, optimizing probabilities with Maximum Likelihood Estimation and Gradient Ascent. This resulted in a 40% reduction in supply lead time.
- Recognizing challenges with inventory management and stockouts, I proactively developed and deployed an interactive Tableau dashboard for size-level performance monitoring, increasing inventory accessibility by 30% for leading retail firm.
- Collaborating with the Director of Stores at a leading retail firm in Western Europe to understand their reporting needs, I designed and built 7 business-critical dashboards providing enhanced product performance KPIs (country, store, division). This directly enabled data-driven decisions that generated a \$60K increase in annual revenue.
- To address data accessibility challenges for the data science team at a telecom giant (supporting a \$1M annual revenue account), I architected and maintained a fully automated, metadata-driven Azure big data pipeline (Data Factory, Blob Storage, Data Lake Storage) that collected and collated data from 7+ sources to enrich their multidimensional data cube. This streamlined team workflows and enabled critical data access.
- Collaborating with the data engineering and sales teams, I co-developed the winning Azure cloud solution architecture for a client's data pipeline project and presented it in business pitches and RFPs, securing a \$50K contract.
- Recognizing the inefficiencies of accessing audit data scattered across disparate Excel files, I proactively migrated Mu Sigma's Audit data to a consolidated PostgreSQL Audit database. This provided teams with rapid access to critical data (team performance, technology usage, skillsets), slashing information retrieval time by over 90% (from up to 2 days to under 4 hours) and significantly improving cross-functional collaboration.
- To address knowledge gaps in Git and Azure Cloud technologies, I led account-specific training sessions for multiple subgroups, reducing project delivery times by 20% by reducing merge conflicts and developing a strong understanding of core concepts
- To rapidly integrate 4 new joiners into high-responsibility, client-facing roles within 3 months, I developed and delivered training in client communication, domain knowledge, and data analysis/exploration techniques. I also mentored them through an end-to-end problem space activity, preparing them for success.

## Technical Skills

- Programming Languages: Python, R, SQL
- Machine Learning/AI: Linear & Logistic Regression, Classification, Decision Forests, Clustering, Neural Networks, Recommendation Systems, Predictive Modeling, Time Series Analysis, Computer Vision, Sentiment Analysis, Large Language Models (LLMs)
- Data Engineering/Big Data: Data Pipeline Development, MySQL, Microsoft SQL Server, Azure SQL Database, Snowflake SQL, Azure Data Lake Storage Gen2, Azure Blob Storage, Azure Data Factory (ADF)
- Data Visualization/BI: Dashboard Design, Tableau, Microsoft PowerPoint
- Version Control/Collaboration: Git, Azure DevOps, Jira, Confluence

## Education

### Master of Data Science | The University of Melbourne

02/2023 – 12/2024

- Delivered actionable product improvement recommendations, informing targeted enhancements for Melbourne Dental School by leading an NLP capstone project and building a machine learning model with transfer learning and rule-based classification to analyse product reviews
- Provided actionable insights for urban planning and development by creating three interactive dashboards in Tableau and R, enabling City of Melbourne officials to analyse Victoria Road accident data and livability metrics
- Elevated data accessibility and developed insights from 124,000 tweets by building a scalable cloud solution on the SPARTAN cluster, efficiently collecting and processing 60 GB of JSON data

### Bachelor of Technology in Computer Science and Engineering | Amrita University

06/2015 – 12/2019

- Enhanced road safety research by proposing a novel approach for real-time driver distraction detection, as evidenced by co-authoring a research paper published in the Springer Journal for Advances in Artificial Intelligence and Data Engineering

## Professional Certifications

- Azure AZ-900: Microsoft Azure Fundamentals Certified

## Awards and Recognitions

- Certificate of Achievement: Awarded by Vision Verse Interactive in 2024 for outstanding commitment, dedication, and valuable contributions as a Data Dashboard Developer Intern
- Star Performer of the Team (SPOT): Awarded by MuSigma in 2023 for leading a team of three and establishing great client interaction with key business stakeholders while also delivering high-quality dashboards for the Western Europe Stores team of a leading retail firm
- Star Performer of the Team (SPOT): Awarded by MuSigma in 2020 for dedication, enthusiasm, and pro-activeness in multiple threads (Audit DB migration activity & creation of consolidated DB for weekly report generation) while contributing towards technical consultation for client accounts