# MANOJ ASHVIN

## Full-Stack Data & AI Engineer

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### PROFESSIONAL SUMMARY

Full-Stack Data & AI Engineer building cloud-based data pipelines, analytics solutions and scalable ML platforms. Experience spans distributed Databricks pipelines, Medallion architecture, banking and AML analytics, and AI-assisted software delivery.

Reduced pipeline runtime by 75% through parallel processing with Python and R, improved address-parsing accuracy by 70%, and mentored more than 60 students in applied data science and machine learning.

### TECHNICAL SKILLS

Cloud & Data: Azure, Azure Data Factory, Databricks, PySpark, SQL, ETL/ELT, Medallion architecture.

AI & Analytics: Python, R, machine learning, agentic AI, AML analytics, forecasting, Power BI.

Engineering & Delivery: Codex, Cline, MLOps, REST APIs, Streamlit, containers, serverless, project and stakeholder management.

### PROFESSIONAL EXPERIENCE

#### Independent

**Full-Stack Data & AI Engineer**

Mar 2026 – present | Chennai

- Build cloud-native web applications, backend services and REST APIs using Azure, containers and serverless architectures.
- Leveraged AI-powered agents to streamline and accelerate the software development lifecycle (SDLC), from technical design and test planning to code generation and deployment.
- Deliver Power BI analytics and manage solutions from requirements through Technical support.

#### Techolution

**Data Engineering & Data Science Consultant**

Apr 2021 – Feb 2026 | Remote from Chennai | Client: Mauritius Commercial Bank (MCB)

- Partnered with bank stakeholders to translate business needs into data and analytics solutions.
- Established Medallion architecture and distributed pipelines with Databricks workflows.
- Reduced runtime by 75% through parallel processing in Python and R.
- Combined machine learning and rule-based scorecards to reduce AML false positives; supported threshold tuning through what-if analysis.
- Performed customer segmentation to identify distinct customer groups and understand their characteristics.
- Delivered Power BI monitoring and a hybrid platform for scalable ML lifecycle management.

## PROFESSIONAL EXPERIENCE - CONTINUED

### Freelance

**Data Scientist & Data Engineer Consultant**

May 2020 – Mar 2021 | Amsterdam

- Improved address-parsing accuracy by 70% and automated ledger ETL workflows.
- Trained and mentored more than 60 students in applied data science and machine learning.
- Helped startups test ideas through rapid machine-learning proofs of concept.

### MACAW

**Data Science & Analytical Consultant**

Apr 2019 – Mar 2020 | Hoofddorp

- Client engagements: Heineken, Collins Aerospace and AVK Netherlands.
- Applied regression analysis to revenue optimization and market cannibalization.
- Developed cluster-based defect detection for high-speed production lines.
- Used statistical evaluation and machine learning to support lead-time reduction.
- Implemented cloud-based data pipelines and analytics solutions using Azure Data Factory (ADF), Databricks, and Power BI.

### CWI Amsterdam

**Research Data Scientist**

Apr – Sep 2018 | Amsterdam

- Researched access-station choice in the western Netherlands using discrete choice modelling.
- Contributed to published research linking cycling distance with train-station choice.

### IDEXX Europe B.V.

**Functional Analyst**

Mar 2016 – Feb 2017 | Hoofddorp

- Modernized legacy laboratory system, AS-IS Process Mapping
- Conducted technical vendor assessment and data-driven recommendations
- Engineered a predictive forecast model to project sample delivery

### Tata Consultancy Services Ltd.

**Technical Support Specialist**

Dec 2009 – Sep 2015 | Mumbai / Amsterdam / Mumbai

- Supported core-banking data migration for the ABN AMRO and Fortis integration.
- Maintained point-in-time consistency across batch and online processing.
- Managed incidents and changes to support stable production releases and translated stakeholder needs into features.

## EDUCATION

**MSc in Business Analytics | Vrije Universiteit Amsterdam**

Sep 2015 – Jun 2018 | Amsterdam, Netherlands

**BE in Computer Science | RMD Engineering College**

Aug 2005 – May 2009 | Chennai, India

## PUBLICATION

Understanding the relation between distance and train station choice behavior of cyclists in the western region of the Netherlands.

Manoj Ashvin Jayaraj, Jullian van Kampen, Eric Pauwels, Rob van der Mei and Elenna R. Dugundji.

DOI: https://doi.org/10.1016/j.procs.2020.03.013