

Aiswarya Pai

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DATA ANALYST | BI, ML, CLOUD & AI

Data-driven professional with 6 years of experience in data analysis, business systems design, cloud solutions (AWS, Azure), and business intelligence. Known for asking the right questions to uncover insights and translating them into actionable stories that guide business decisions. Strong foundation in Python, SQL, R, Tableau, Excel, and machine learning, with proven ability to bridge technical expertise and business needs.

EDUCATION

Master of Science in Management - Business Analytics & Information Systems The University of Akron, Ohio, USA	08/2024 - Present GPA: 3.96
Coursework: Business Analytics & Information Strategy, Programming for Analytics, Data & IS Governance, Business Intelligence, Analysis & Design of Business Systems, Project Management, Leadership Skills, Database Management	
Bachelor of Technology in Civil Engineering Mahatma Gandhi University, Kerala, India	06/2013 - 05/2017 GPA: 3.9

SKILLS

Cloud Infrastructure: AWS and Azure Infrastructure Design, Infrastructure as Code Automation, CI/CD, Azure DevOps, Identity & Access Management, Network Security, Platform Monitoring & Optimization, Serverless Architecture, Disaster Recovery.

Programming: Python, R, SQL, C#, Terraform, PowerShell, YAML

Analytics & Management: Business Analysis, Data Visualization, Machine Learning, Neural Networks, Data Storytelling, Business Intelligence, Data-Driven Decision Making, Requirements Gathering, Agile/Scrum, UML, Use Case Development, KPI Reporting, Process Improvement, Risk Assessment, Project Management.

Tools & Platforms: Tableau, Microsoft Excel, Power BI, Confluence, JIRA, GitHub, IBM Rhapsody, Visual Studio.

PROFESSIONAL EXPERIENCE

Tata Consultancy Services

Cloud Architect , Morristown, NJ	05/2023 - 02/2024
<ul style="list-style-type: none">Steered the end-to-end migration of 3 COTS applications to AWS by conducting cloud readiness assessments and designing resilient, scalable architectures to cut down on-premises infrastructure costs by 30%.Partnered with product owners, client architects, and business users to gather requirements and translate them into scalable solutions.Led cross-functional teams across the US, Germany, and India and delivered AWS/Azure solutions aligned with business objectives and client requirements, to achieve 99% customer satisfaction.Spearheaded the design, implementation, monitoring, and documentation of cloud infrastructure, following AWS Well-Architected Framework.Mentored a team of 5 engineers through regular knowledge-sharing and grooming sessions, resulting in their measurable skill progression and improved project outcomes.	
IT Analyst - AWS , Leverkusen, NRW, Germany	01/2021 - 04/2023

IT Analyst - AWS , Leverkusen, NRW, Germany	01/2021 - 04/2023
<ul style="list-style-type: none">Designed and implemented Infrastructure as Code (IaC) solutions using Terraform, CloudFormation, and GitHub, provisioning scalable environments and improving deployment efficiency by 40%.Implemented centralized logging and monitoring via CloudWatch, Elasticsearch, and Lambda, and created BI dashboards to monitor KPIs, which improved system visibility and reduced troubleshooting time by 35%.Conducted security and compliance reviews across cloud environments, achieving 98.5% adherence to organizational security standards.Served as a key liaison between business stakeholders, technical teams, and vendors, facilitating Agile ceremonies and ensuring delivery of MVPs and new features closely aligned with KPIs and business value.	
Platform Engineer , Kochi, KL, India	12/2017 - 12/2020

Platform Engineer , Kochi, KL, India	12/2017 - 12/2020
<ul style="list-style-type: none">Provisioned tech stacks on Azure using ARM templates and PowerShell scripts and maintained CI/CD pipelines via Azure DevOps and GitLab, enabling seamless deployments to production.Led the post-go-live customer support and cloud platform operations, conducted cost-performance analysis, and executed platform optimization that generated \$50K+ annual savings.Initiated operational reviews, risk tracking, disaster recovery drills, and enabled proactive alerts to prevent critical outages, reducing production escalations by 30%.Troubleshoot and resolved deployment, performance, and scalability issues across AWS and Azure environments, contributing to improved uptime and better user experience.	

PROJECTS

Driver Distraction Detection using Convolutional Neural Networks (CNN) | Python, Machine Learning 07/2025

- Built CNN and transfer learning models (ResNet50) to classify driver distractions and developed a Tkinter-based UI for real-time predictions.
- Improved detection efficiency through augmentation techniques, enabling accurate assessment of driver behavior. Made the users interact with the model via the Tkinter UI.

Predicting Medical Expenses | R Programming, Regression Analysis 03/2025

- Applied regression techniques on insurance data to predict patient medical expenses based on age, BMI, and lifestyle habits. Compared the accuracy using multiple methods, like gamma regression and Box-Cox transformation.

Student Enrolment System – UI Prototyping & Analysis | C#, IBM Rhapsody, Visual Studio 02/2025

- Designed an interactive student enrolment interface with features for login, course search, prerequisite checks, and time conflict detection using Windows Forms and C#.
- Modelled system behaviour through use cases and sequence diagrams in IBM Rhapsody, reflecting Human-Computer Interaction, user behavior analysis, and process improvement capabilities.

Crime Data Analysis & Dashboard | Tableau, Microsoft Excel 11/2024

- Developed an interactive BI dashboard in Tableau, analyzing Chicago crime patterns with 4 visualizations to identify high-risk zones and provide recommendations. Presented insights effectively to a non-technical audience.
- Enabled data-driven resource allocation decisions through BI storytelling.

OTHER EXPERIENCE

Teaching Assistant, Department of Management, The University of Akron, OH, USA 08/2024 - Present

- Collaborated with 2 Professors to organize and maintain the virtual teaching content on Brightspace, facilitating an efficient teaching experience.
- Evaluated assignments and maintained attendance records for two classes of 30 students, ensuring accurate performance tracking.
- Executed clerical duties like filing, photocopying, and inventory management for a smooth classroom operation.

Co-Ops Volunteer, M.A. College of Engineering, Kerala, India 01/2014 – 03/2017

- Co-ordinated career guidance sessions and placement training and served as the emcee/host for annual ceremonies.
- Worked closely with recruitment teams from various companies and as a registration desk assistant for career fairs and events.

CERTIFICATIONS

- AWS Educate – Introduction to **Generative AI** 06/2025
- Microsoft Certified **Azure Cloud Administrator** 06/2020
- **AWS Certified Solutions Architect Associate** 07/2018

CONFERENCES ATTENDED

AWS Summit New York City 07/2025

- Attended chalk talks and builder sessions on GenAI at scale, cloud observability, and scalable data infrastructure, gaining exposure to the latest advancements and real-world applications.
- Engaged with AWS experts and industry case studies on data governance, BI-driven decision-making, and building secure, cost-optimized, production-ready AI/ML solutions.

Business Analytics & Innovation Summit, University of Akron, OH 09/2024

- Interacted with industry leaders from NE Ohio on AI literacy, data governance, and digital transformation.
- Explored real-world case studies and networking opportunities with professionals and faculty, strengthening applied knowledge in business analytics and enterprise innovation.

AWARDS & RECOGNITION

- TCS - Star of the Month Award (2023), Contextual Master Award (2021), ILP Kudos Award (2018)
- Pradeep G Pai Outstanding Scholar Award - World Konkani Centre (2018)
- Best Outgoing Student – Civil Engineering Department, M.A. College of Engineering (2017)