

Avinash Pachauri

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Personal Profile

MSc Business Analytics graduate with over three years' experience in software quality assurance, process automation, and data-driven performance improvement. Skilled in SQL, Python, Tableau, and Excel for extracting, analysing, and visualising data to support operational decision-making. Adept at working with large datasets, identifying trends, and creating reports and dashboards to monitor KPIs. Experienced in collaborating with cross-functional teams to define requirements, optimise processes, and deliver solutions that improve efficiency and stakeholder outcomes.

Technical Skills

- SQL/R/Python (Pandas, NumPy, Matplotlib)
- Data Analytics & ETL concepts
- Visualization (Excel, Tableau)
- Data Cleaning, Transformation & KPI Monitoring
- Requirements Gathering & Documentation
- Business Process Modelling (Microsoft Visio)
- Statistical analysis
- MS Office Suite
- Agile & Scrum Methodologies

Soft Skills

- **Collaboration and Team work** - Successfully collaborated within cross-functional teams on multiple projects, consistently meeting client requirements and strict deadlines, resulting in enhanced project efficiency and client satisfaction.
- **Analytical skills** - Demonstrated strong analytical abilities by accurately assessing and comprehending business requirements, leading to effective solution design and improved business outcomes.
- **Communication** - Developed and delivered impactful presentations and demonstrations for managers and clients, effectively conveying complex technical information and improving stakeholder understanding and engagement.

Work Experience

Test Analyst, Infosys Ltd. - Bangalore, India (May, 2019 – July, 2022)

- **Queried and analysed** QA performance data to identify recurring failure points, influencing process changes that reduced defect leakage rate by 30%.
- **Built and maintained** automation scripts and reporting dashboards, improving delivery efficiency by 70% and enabling faster, data-backed release decisions.
- **Presented** weekly KPI and trend reports to stakeholders, aligning technical metrics with business goals.
- **Collaborated** with cross-functional teams to define requirements, design solutions, and improve operational workflows across high-impact applications.
- **Developed and maintained** end-to-end test cases aligned with business-critical workflows across energy, banking, and utility platforms, ensuring 100% functional coverage and enabling consistent KPI tracking for system performance.

Research Intern, DRDO (Defence Research and Development Organization) - New Delhi, India (May, 2018 – June, 2018)

- **Conducted research** on the trafficability of soil for military vehicles, including T-72 and T-90 tanks and Tatra trucks, using **NASA's Soil Moisture Active Passive (SMAP)** satellite data. Analyzed soil conditions across various military regions to assess vehicle mobility and support strategic operational planning.

Education

September, 2023 – August, 2024 | M.Sc. in Business Analytics, University of Galway, Galway, Ireland

1:1 Honor

July, 2015 – April, 2019 | Bachelor of Technology in Mechanical Engineering, Vellore Institute of Technology, Vellore, India

CGPA – 8.3/10

Projects

- **Machine Learning for Airbnb Demand Prediction:** Developed a demand forecasting model for Airbnb using SQL, Python, and Tableau. Integrated booking, review, weather, and event data to enhance prediction accuracy. The Gradient Boosting model achieved a high R^2 score of 0.9277. Key features influencing predictions included the booking-to-availability ratio, availability, event count, and sentiment scores. This project provided actionable insights for optimizing Airbnb pricing and availability strategies.
- **CaseCraft Legal Tech Solution:** Developed an Gen-AI powered legal tech solution, CaseCraft, aimed at revolutionizing the legal industry by automating and streamlining key tasks such as legal document drafting, case summarization, argument generation, and moot court preparation.
- **Customer Behaviour Analysis:** Conducted a comprehensive analysis of customer buying habits using a python, tableau and RapidMiner to enhance business decision-making and marketing strategies.

Extracurricular Activities

- **Medtronic's Grand Challenge:** Finalist in Medtronic Grand Challenge for our concept: **LifeLink**, a healthcare-focused multimodal LLM designed to empower patients and accelerate innovation; presented concept to Medtronic leadership, applying design thinking, stakeholder engagement, and strategic communication skills.
- **Enterprise Challenge:** Worked in a team of 5 and streamlined daily task allocation for a 9-member production team, enhancing operational efficiency in achieving targets of 636 catheters per shift, despite frequent absenteeism (UoG, 2023)
- Volunteered for Youth Red Cross Society. Designed and created posters for No Tobacco awareness campaign (VIT, 2018)
- Led a team of 5 as a member of Creativity Club to get sponsorship of over INR 50,000 for a stand-up comedy event, increasing event participation by 30% (VIT, 2015)

Achievements

- Received '**President's Award (silver) for Innovation and Entrepreneurship**' for successfully completing Enterprise and Medtronic's Grand challenge from Ideaslab, UOG.
- Completed Infosys training as a high performer and was among the top 5% of 200 students
- Received an **INSTA Award** for outstanding work to meet the project deliverables at Infosys Ltd

Certifications

- Google Data Analytics Professional (Coursera)
- Foundations of Strategic Business Analytics (Coursera)
- Foundations of Marketing Analytics (Coursera)
- Tableau for Data Science (Udemy)