

Ajay Vedpathak

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PROFESSIONAL SUMMARY

I am a Telecom Data Analyst with 7 years of experience focused on enhancing operational efficiency in FTTx and GPON network design. My expertise lies in utilizing tools like Excel, SQL, and Power BI to convert complex datasets into valuable insights. I have successfully reduced design errors, improved project timelines, and delivered measurable ROI through predictive modeling and root cause analysis

EDUCATION

Bachelor of Engineering (Electronics and Communication Engineering)
Pune University

2012 - 2016
Grade: 7.6/10.0

EXPERIENCE

Senior Data Analyst - FTTx
Congruex LLC

April 2023 - Present
Mohali

- Designed and implemented Excel-based quality health dashboards to monitor team performance and fiber network design quality, resulting in 35% reduction in design errors and 98% quality compliance rate.
- Generated dynamic Power BI dashboards visualizing KPIs, including fiber segment lengths, cable counts, and network redundancy metrics for executive reporting.
- Conducted root cause analysis on design bottlenecks using data analysis techniques, identifying patterns that led to 20% improvement in project delivery timelines.
- Provided data-driven recommendations to optimize network designs, reducing material costs by 15% while maintaining quality standards

Data Analyst - OSP FTTx
Techwave Consulting

July 2021 - April 2023
Hyderabad

- Analysed and optimized FTTx and GPON network designs for 50+ projects, improving network efficiency by 18% through data-driven layout recommendations
- Built interactive Excel dashboards with pivot tables and advanced formulas to track project progress across multiple teams, providing real-time visibility to stakeholders.
- Collaborated with cross-functional teams to standardize data collection processes, improving data consistency by 30% across projects

Telecom Network and Operations Data Analyst
Tata Communications Pvt ltd

July 2016 - February 2020
Pune

- Analysed network performance data for FTTH deployments across 100+ North American ISP projects, identifying trends that improved network uptime by 12%.
- Developed Excel-based tracking systems with formulas and pivot tables to monitor project milestones, reducing reporting time by 50% and improving on-time delivery by 15%.
- Initiated data visualizations and reports for client presentations, effectively communicating technical findings to non-technical stakeholders.

PROJECTS

Gurgaon Real Estate Analytics: Predicting Prices and Recommending Properties on Web app ([Github](#)) ([Demo](#))
February 2024

- Developed end-to-end machine learning web application for real estate price prediction using regression algorithms like Random Forest Regressor, achieving 85% prediction accuracy on test data.
- Performed exploratory data analysis (EDA) and feature engineering on historical dataset of 10,000+ property listings, extracting key attributes including location, property size, number of bedrooms, amenities, and property types.
- Analysed the market to identify real estate hotspots and regions with significant price fluctuations, providing data-driven investment insights and trend visualizations using Matplotlib.
- Implemented content-based recommendation engine using cosine similarity algorithm to suggest personalized property matches based on user search behavior and stated preferences.

- The engine was integrated into the Streamlit web app, allowing users to receive real-time, personalized recommendations based on their search behavior and preferences.

Shark Tank India SQL Case Study ([Github](#))

October 2023

- Conducted comprehensive SQL-based analysis of Shark Tank India investment data spanning 100+ episodes and analyzed 500+ startup pitches and investment decisions.
- Extracted, cleaned, and transformed investment data using advanced SQL techniques including complex JOINS, subqueries, window functions, CTEs, and aggregate functions.
- Calculated key business metrics including total investment per investor (shark), average deal size, equity percentage patterns, success rate by industry vertical, and deal conversion rates.
- Identified investor preferences showing technology and healthcare sectors received 40% of total funding, with average deal size of INR 50 lakhs and equity ask of 15-20%.
- Generated insights correlating industry investment flows with market trends, investor specialization, and business growth potential using data-driven analysis.

CERTIFICATIONS

Advanced Certification in Data Science and AI IIT Madras ([Link](#))

April 2023

- Completed an intensive data science certification program covering topics such as data analysis, machine learning, statistical modeling, and data visualization using SQL, Python, PowerBI, Spreadsheets etc.

SKILLS

Computer Languages: Machine Learning, Python, SQL, SQL, Python

Data Tools: Power BI, Power BI

Software Packages: Pandas, Matplotlib, Excel, MySQL, Excel

Soft Skills: Interpersonal communication, Verbal/nonverbal communication, Leadership, Team Building, Decision-making, Delegating tasks, Teamwork, Critical Thinking, Responsibility, People skills

Others: Microsoft Office, Spreadsheet, Analytics