

Ajay Vedpathak

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PROFESSIONAL SUMMARY

Results-driven Telecom Data Analyst with 7+ years of experience driving operational excellence in Telecom (FTTx/GPON) and cross-domain analytics. Skilled in Excel, SQL, Power BI, and Python to convert complex datasets into actionable insights. Proven track record of reducing design errors, improving project delivery timelines, and delivering measurable ROI through predictive modeling, root cause analysis, and interactive dashboards

EDUCATION

Bachelor of Engineering (Electronics and Communication Engineering) Pune University	2012 - 2016 Grade: 7.6/10.0
Intermediate (Class XII) Maharashtra State Board	2010 - 2012 Grade: 86.33%
Matriculation (Class X) Maharashtra State Board	2001 - 2010 Grade: 88.18%

EXPERIENCE

Telecom Data Analyst - FTTx Management October 2025 - Present
Amdocs LLP *Pune*

- Developed a **Power BI vendor scorecard dashboard** tracking **4+ KPIs** (Quality scores, On time Performance etc) across 5+ vendors, enabling data-driven vendor tiering and quarterly reviews.
- Automated monthly vendor performance reports in Excel using Pivot Tables and advanced formulas, reducing manual reporting effort by **60% and cutting report cycle from 5 days to 1 day**.
- Conducted quantitative SLA breach analysis on 5+ vendor transactions, identifying **3 high-risk vendors** responsible for **70% of delivery delays** and escalating for contract renegotiation.

Senior Data Analyst - FTTx April 2023 - October 2025
Congruex LLC *Mohali*

- Designed and implemented Excel-based quality health dashboards to monitor team performance and fiber network design quality across 8 project teams, resulting in a **35% reduction in design errors** and achieving a **98% quality compliance rate**.
- Generated dynamic Power BI dashboards visualising KPIs — including fiber segment lengths, cable counts, and network redundancy metrics — for **executive reporting, reducing manual reporting effort by 60%**.
- Conducted root cause analysis on **design bottlenecks across 200+ design review cycles** using structured data analysis, identifying recurring failure patterns that led to a **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 July 2021 - April 2023
Techwave Consulting *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 **6 cross-functional teams**, providing real-time stakeholder visibility and **reducing project status reporting time by 40%**.
- Collaborated with cross-functional teams to standardize data collection processes, improving **data consistency by 30% across projects**.

Telecom Network and Operations Data Analyst July 2016 - February 2020
Tata Communications Pvt ltd *Pune*

- Analysed network performance data for FTTH deployments across **100+ North American ISP projects**, to identify uptime degradation trends that **improved network uptime by 12%**.
- Developed Excel-based tracking systems with formulas and pivot tables to monitor project milestones across **40+ concurrent projects reducing reporting time by 50%** and improving on-time delivery by **15%**.

PROJECTS

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

- **Problem:** Real estate buyers lacked reliable tools to estimate property prices and discover personalised listings across a data-heavy, unstructured market.
- **Approach:** Developed an end-to-end **ML web application** using Random Forest Regressor on **10,000+ property listings**; performed EDA and feature engineering on location, property size, bedroom count, amenities, and property type.
- **Impact:** **Achieved 85% prediction accuracy** on test data; deployed a cosine-similarity recommendation engine via Streamlit enabling real-time personalised property suggestions; **identified 5 high-growth real estate hotspots with 20%+ price appreciation trends**.
- **Tools & Technologies:** Python, Scikit-learn, Pandas, Matplotlib, Streamlit, Random Forest, Cosine Similarity.

Shark Tank India SQL Case Study ([Github](#)) October 2023

- **Problem:** Investment patterns across **100+ Shark Tank India** episodes were unstructured, making it difficult to derive actionable investor strategy or sector insights.
- **Approach:** Conducted comprehensive SQL analysis on **500+ startup pitches and investment decisions using complex JOINS, CTEs, Window Functions, and aggregate functions** to compute deal metrics and investor preferences.
- **Impact:** Identified technology and healthcare as top sectors receiving **40% of total funding**; revealed **average deal size of Rs 50L with 15-20% equity patterns**; surfaced investor-specific specialisation trends across 7 sharks spanning 3 seasons.

- Tools & Technologies: SQL (CTEs, Window Functions, Subqueries, Joins), MSSQL.

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 Language: Python, SQL

Soft Skill: Critical Thinking, Decision-making, Delegating tasks, Interpersonal communication, Leadership, People skills, Responsibility, Team Building, Teamwork

Databases & Data Tools: Excel, Power BI, Spreadsheet

AI / ML: Machine Learning

Domain & Business Skills: Analytics

Frameworks & Libraries: Matplotlib, Microsoft Office, Pandas