

Ayush Patel

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PROFESSIONAL SUMMARY

Data Analyst with 2+ years of experience at Bosch Global Software Technologies delivering business-critical insights through data visualization, automated reporting, and end-to-end analytics pipelines. Proficient in Python, SQL, Power BI, Tableau, and Excel, with hands-on expertise in ETL design, KPI dashboard development, data migration, and performance analytics. Designed Power BI dashboards consumed by leadership for project tracking and efficiency measurement, built data migration pipelines serving 1,000+ users, and automated reporting workflows—reducing processing time by 30% and eliminating 90% of manual effort. Complementary strengths in Software Engineering, Data Engineering, Automation, and AI/ML that enable a full-stack, data-driven approach to complex business problems.

EDUCATION

Bachelor of Technology (Data Science)
SRM University

2019 - 2023
Grade: 9.16/10.0

EXPERIENCE

Software Developer

Bosch Global Software Technologies

January 2024 - Present
Bangalore

- Engineered a Python-based automation pipeline for STELLANTIS vehicle software signing across 200+ ECU artifacts, reducing end-to-end signing cycle time from 8+ hours to under 45 minutes and eliminating 90% of manual effort in the release workflow.
- Architected a full-scale data migration pipeline from IBM ALM to JIRA, transferring planning, ticket, and task lifecycle data for 1,000+ users—enabling seamless migration of reporting queries and powering management dashboards and operational insights used by leadership and reporting teams.
- Automated user provisioning via Bosch's OneIDM (IAM) platform integrated with JIRA through Python REST APIs, ensuring compliance with Bosch internal standards and providing audit traceability across the entire data access lifecycle.
- Designed and maintained Power BI dashboards and MySQL-backed reports tracking associate work output, project progress, data quality, and team efficiency metrics—used by project managers and senior leadership to drive resource allocation and performance reviews.
- Developed 5+ IBM Rational Rhapsody plugins to extract and transform system model validation results, requirement traceability data, and design quality metrics from complex engineering models—reducing reporting team's data preparation time by 70% and enabling standardized dashboard generation.
- Built Python-driven ETL scripts to extract and transform 11,000+ records from IBM ALM into structured, analysis-ready datasets consumed by project managers for planning analytics and fed into ML model training pipelines across multiple Bosch divisions.
- Designed multi-format data pipelines (JSON, XML, XLS, CSV) from 10+ disparate sources, reducing data processing time by 30% and enabling real-time downstream analytics for cross-functional engineering teams in an Agile/Scrum environment.

INTERNSHIPS

Data Science Intern
CybeReconn

April 2023 - January 2024
Remote

- Performed EDA and **statistical analysis** on **50K+** PPP project records using Python/Jupyter, improving data **accuracy by 20%** and delivering automated reporting frameworks that increased initiative success rate by 15%.
- Built NLP-powered **LLM applications** using **LangChain**, reducing information retrieval time by **25%**.

Data Science Intern
Forsk Technologies

March 2022 - June 2022
Remote

- Built an NLP sentiment classification pipeline on 15K+ e-commerce reviews, achieving 91% accuracy (+20% over baseline) and automating product satisfaction analytics

PROJECTS

IT Ticket Analysis

June 2025

- Designed an end-to-end analytics pipeline on 10,000+ IT support tickets to measure SLA compliance, resolution time, agent performance, and CSAT trends—directly supporting staffing and workload optimization decisions.
- Engineered SQL-based data cleaning workflows—duplicate detection, missing value imputation, anomaly flagging—ensuring 98%+ data quality for reliable standard and ad-hoc reporting.
- Developed interactive KPI dashboards in Power BI and Excel (Pivot Tables, Charts) enabling real-time monitoring of SLA breach rates, cost-per-ticket metrics, and recurring issue patterns.
- Delivered BI-driven recommendations that informed workload redistribution, reducing SLA breach rate by 18% and improving overall service delivery efficiency.

Content Analytics & Classification System

July 2022

- Built a multi-class content analytics pipeline for the Ministry of Information & Broadcasting (India) to automatically classify, detect, and flag web content at national scale.
- Implemented end-to-end ML/DL pipeline: data sourcing via web scraping → text feature engineering → CNN/LSTM model training → real-time API-based alerting, processing 100K+ content items with 94% precision.

Krishifarms.ai — Predictive Analytics Platform

July 2022

- Developed a predictive analytics platform ingesting multi-source data (soil, weather, crop history) to generate prescriptive recommendations, improving productivity by 40% over manual baselines.
- Trained and evaluated regression and classification models on 5,000+ agricultural records, delivering demand-sensing insights that replaced manual decision-making with model-backed predictions.

CERTIFICATIONS

Data Science for Engineers NPTEL ([Link](#))

April 2021

- Gained hands-on knowledge of **statistics, probability, hypothesis testing, regression, classification, and clustering** for solving real-world engineering problems. Applied **Python, NumPy, Pandas, and visualization techniques** for data preprocessing, exploratory data analysis, and model evaluation.

Introduction to Machine Learning (NPTEL, IIT-Kharagpur) NPTEL ([Link](#))

April 2021

- Acquired strong foundation in **supervised and unsupervised learning**, including **linear/logistic regression, decision trees, SVM, clustering, and dimensionality reduction**. Gained hands-on experience with **Python, Scikit-learn, and data preprocessing** for model building and evaluation.

SKILLS

Computer Languages: SQL, Python, Machine Learning, Python, SQL, Java, HTML, C, C++

Data Tools: Power BI, TensorFlow, NumPy, Power BI

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

Additional Courses: Data Structure

Soft Skills: Presentation Skills, Communication Skills

Others: Jira, Git and Github, Postman, Spreadsheet, LLM, Analytics, LangChain, GenAI, Hugging Face, Tableau