

# Ayush Patel

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## PROFESSIONAL SUMMARY

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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

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**Bachelor of Technology** (Data Science)  
SRM University

2019 - 2023  
Grade: 9.16/10.0

## EXPERIENCE

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### Software Developer

January 2024 - Present  
*Bangalore*

Bosch Global Software Technologies

- 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

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**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

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### 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

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**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**

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**Computer Language:** C, C++, HTML, Java, Python, SQL

**Courses:** Data Structure

**Soft Skill:** Communication Skills, Presentation Skills

**Databases & Data Tools:** Excel, MySQL, Power BI, Spreadsheet, Tableau

**AI / ML:** GenAI, Hugging Face, LangChain, LLM, Machine Learning, TensorFlow

**APIs & Testing:** API, Postman

**Cloud & DevOps:** Git and Github

**Domain & Business Skills:** Analytics, Jira

**Frameworks & Libraries:** Matplotlib, NumPy, Pandas