

# Ayush Patel

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## PROFESSIONAL SUMMARY

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Data-focused Software Engineer with 2+ years of experience building Python-based ETL pipelines, data transformation workflows, and REST API-driven data integrations in enterprise environments. Proficient in SQL, Python, Power BI, Tableau, and Jupyter Notebook, with hands-on expertise in exploratory data analysis (EDA), statistical modeling, data visualization, business intelligence (BI), NLP, machine learning, and KPI dashboard development. Demonstrated ability to deliver measurable business impact—reducing data processing time by 30%, eliminating 90% of manual effort, and improving data accuracy by 20%+. Seeking to leverage expertise in data engineering, business intelligence, and predictive analytics to drive data-driven decision-making in a Data Analyst / Data Engineer / Data Scientist role.

## EDUCATION

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

2019 - 2023  
Grade: 9.16/10.0

## EXPERIENCE

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**Associate Software Engineer**

January 2024 - Present  
*Bangalore*

Bosch Global Software Technologies

- Engineered Python-based **ETL pipelines** to extract, parse, and transform multi-format data (JSON, XML, XLS, CSV), reducing **data processing time by 30%** and enabling seamless downstream data consumption for engineering teams.
- Automated end-to-end software signing data workflows for **STELLANTIS automotive systems** using Python, eliminating **90% of manual effort** and accelerating software release cycle throughput.
- Built a **CSV-driven automated data pipeline** with REST API integration for internal ticket management, improving **operational response efficiency by 40%** and reducing average resolution time.
- Integrated **OneIDM (IAM) with JIRA** via Python REST APIs to automate user provisioning data flows, enhancing data integrity and audit traceability across **1,000+ user records**.
- Streamlined IBM ALM data operations through Python automation scripts in an **Agile/Scrum** environment, **cutting manual data entry by 50%** and improving overall pipeline reliability and data consistency across cross-functional engineering teams.
- Developed **5+ IBM Rational Rhapsody plugins** to automate system modeling workflows, enabling richer and more accurate data-driven design validation.

## INTERNSHIPS

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**Data Science Intern**  
CybeReconn

April 2023 - January 2024  
*Remote*

- Performed **Python-based EDA and statistical analysis** using **Jupyter Notebook** on PPP (Public-Private Partnership) project datasets, improving **data accuracy by 20%** and surfacing actionable patterns to support stakeholder strategic planning decisions.
- Designed reporting frameworks and data-driven insight pipelines that improved **initiative success rate by 15%** through trend analysis and stakeholder-facing summaries.
- Built **NLP-powered LLM applications** using **LangChain** (Chatbot, Document Q A, Blog Generator), reducing query response latency by **25%** and enabling intelligent retrieval from unstructured data sources.

**Data Science Intern**  
Forsk Technologies

March 2022 - June 2022  
*Remote*

- Architected an **NLP-based sentiment classification pipeline** for e-commerce product reviews, applying advanced **feature engineering** and text preprocessing (tokenization, stopword removal, TF-IDF vectorization) to achieve **91% classification accuracy** — a **20% improvement** over the baseline model.
- Automated end-to-end sentiment analysis to generate actionable product and customer satisfaction insights, reducing manual review processing overhead significantly.

## PROJECTS

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- Designed an **end-to-end analytics pipeline** on 10,000+ IT support tickets to measure SLA compliance, resolution time, ticket backlog, and CSAT trends.
- Engineered **data cleaning workflows in SQL** — duplicate detection, missing value imputation, and anomaly flagging — ensuring **98%+ data quality** for downstream reporting.
- Developed interactive **KPI dashboards** in Power BI and Excel (Pivot Tables, Charts) to track agent performance, SLA breach rates, and recurring issue patterns in real time.
- Delivered **business intelligence (BI)** insights and data-driven recommendations that informed workload redistribution decisions, improving service delivery efficiency and reducing SLA breach rates.

### Web Content Monitoring & Classification Project (Ministry of Information and Broadcasting, India) July 2022

- Built a **multi-class content classification pipeline** for the Ministry of Information Broadcasting (India) to automatically detect and flag web content violating national sovereignty guidelines.
- Implemented a complete **ML/DL data pipeline** covering web scraping, text feature engineering, model training (CNN/LSTM), and real-time API-based alerting, enabling **scalable, automated content moderation** at national scale.

### Krishifarms.ai (Smart farming Solution)

July 2022

- Developed an **ML-powered smart farming platform** ingesting multi-source data (soil, weather, crop history) to generate prescriptive crop and fertilizer recommendations.
- Trained and deployed predictive models that **improved agricultural productivity by 40%**, replacing manual decision-making with data-driven, model-backed recommendations.

## 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 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