

RUSHIKESH PRAVIN PATIL

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SUMMARY

Artificial Intelligence and Data Science Engineer with a strong foundation in software engineering, AI, machine learning, and full-stack application development. Experienced in building AI-powered applications, REST APIs, analytics dashboards, and intelligent automation solutions using Python, React.js, FastAPI, and modern AI frameworks. Passionate about developing scalable AI-driven software systems and seeking an entry-level Software Engineer / AI Engineer / Full Stack Developer role.

TECHNICAL SKILLS

Programming Languages: Python, SQL, JavaScript, TypeScript

AI & Machine Learning: TensorFlow, Scikit-learn, CNN, YOLOv8, OpenCV, Computer Vision, NLP, LangGraph, LLMs, Prompt Engineering, RAG, Feature Engineering, Model Evaluation, Data Preprocessing

Frontend Development: React.js, React Query, Tailwind CSS, HTML5, CSS3, JavaScript, TypeScript

Backend Development: FastAPI, Flask, REST APIs, SQLAlchemy, JWT Authentication, API Integration, Streamlit

Software Engineering: Object-Oriented Programming (OOP), Data Structures & Algorithms, SDLC, Software Design, Debugging, Testing, Exception Handling, Logging, Code Optimization, Version Control, Agile Methodologies

Databases: PostgreSQL, MySQL, MongoDB, Neon PostgreSQL

Data Analytics: Pandas, NumPy, Matplotlib, Seaborn, Power BI, Zoho Analytics, Microsoft Excel, ETL, Data Cleaning, Statistical Analysis

Cloud & DevOps: AWS Fundamentals, Cloud Computing, Docker, CI/CD, DevOps Fundamentals, Deployment

Tools & Platforms: Git, GitHub, Jira, Zoho Projects, VS Code, Postman

INTERNSHIP

Data Analyst Intern

Sept 2025 – Dec 2025

Inorbvict Healthcare Pvt. Ltd., Pune, India

- Developed interactive **Business Intelligence dashboards** using **Zoho Analytics** to monitor KPIs, operational metrics, and support data-driven decision making.
- Contributed to an **AI-powered Sales CRM Chatbot** by assisting in data analysis, feature evaluation, testing, workflow optimization, and reporting for intelligent customer engagement.
- Built productivity dashboards using **Zoho Analytics**, **Jira**, and **Git Analytics**, supporting Agile project management, sprint tracking, engineering workflows, and cross-functional collaboration.

PROJECTS

AI-First CRM for Healthcare Professionals (HCP)

2026

React.js, TypeScript, FastAPI, Python, LangGraph, Groq LLM, PostgreSQL, SQLAlchemy, JWT

[Live Demo](#)

- Built a production-ready **AI-powered CRM** using **React.js**, **FastAPI**, **PostgreSQL**, implementing secure **JWT authentication**, REST APIs, HCP management, interaction tracking, analytics, and scalable full-stack architecture.
- Engineered an **AI-first workflow** with **LangGraph** and **Groq Llama 3** to generate interaction summaries, sentiment analysis, priority classification, compliance validation, and AI-driven follow-up recommendations.
- Developed responsive dashboards with KPI analytics, interaction history, and protected routes using **TypeScript**, **React Query**, and **Tailwind CSS**; deployed on **Vercel**, **Render**, and **Neon PostgreSQL**.
- Implemented **cloud-based deployment** using managed hosting platforms, integrated production REST APIs, managed cloud databases, CI/CD workflows, and secure environment variable configuration for scalable application delivery.

- Developed an **AI-powered smart parking management system** using **YOLOv8**, **OpenCV**, and **EasyOCR** for real-time vehicle detection, license plate recognition, automated entry/exit monitoring, and OCR-based validation.
- Built a scalable **FastAPI** backend with **MySQL** for parking slot allocation, vehicle history, occupancy tracking, duplicate detection, and REST API integration.
- Designed a responsive **React.js** dashboard with live camera streaming, parking visualization, vehicle search, analytics, and real-time monitoring; deployed on **Vercel**.

- Developed an **AI-powered medical image analysis system** using **Python**, **TensorFlow**, **CNN**, and **OpenCV** for automated CT scan classification and disease prediction.
- Built scalable **FastAPI** REST APIs with robust validation, exception handling, and image preprocessing to support reliable AI inference and backend services.
- Designed a responsive **React.js** interface for CT scan upload, AI prediction visualization, and real-time result monitoring following modular software engineering practices.

- Developed an **AI-powered CRM chatbot** using **Python**, **OpenAI API**, and **Scikit-learn** to automate lead qualification, customer engagement, and intelligent sales assistance.
- Built scalable **Flask REST APIs** with **MongoDB** integration for customer data management, chat history, backend services, and AI-driven workflow automation.
- Designed an interactive **Streamlit** dashboard implementing prompt engineering, machine learning models, API integration, and modular software design following version control and software engineering best practices.

EDUCATION

Bachelor of Engineering (BE) in Artificial Intelligence and Data Science - CGPA: 7.69/10	2022 – 2026
Savitribai Phule Pune University, Pune, India	
Higher Secondary Certificate (HSC) – 78.83%	2022
Kai. Sau. G. F. Patil Junior College, Maharashtra	
Secondary School Certificate (SSC) – 88.00%	2020
Sheth V. K. Shah Vidya Mandir, Maharashtra	

CERTIFICATIONS

- Mastery in Data Science and Data Analytics with AI – NSDC And ItVedant Education [\[Certificate\]](#) 2025
- Machine Learning with Python – IBM [\[Certificate\]](#) 2025
- Data Science and Data Analytics with Python – IBM [\[Certificate\]](#) 2025
- Amazon Web Services (AWS) – ItVedant Education [\[Certificate\]](#) 2025
- Fundamentals of DevOps – ItVedant Education [\[Certificate\]](#) 2025