

I LESH P A T E L AI ENGINEER

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Professional Summary

Results-driven Information Technology student specializing in **Artificial Intelligence and Machine Learning**, with strong expertise in **Python**, data structures, and database systems. Experienced in data preprocessing, exploratory data analysis, feature engineering, and building **Supervised and Unsupervised Learning Models** using Scikit-learn, Pandas, and NumPy. Proficient in **Deep Learning architectures** including CNNs for computer vision and RNN-based models for sequence and time-series data. Skilled in **Natural Language Processing** and **Generative AI**, including embeddings, prompt engineering, and large language model integration. Focused on designing **End-to-End AI Systems** and integrating **Scalable ML Solutions** into real-world applications that deliver measurable impact.

Skills

Artificial Intelligence & Machine Learning

- Deep Learning
- Neural Networks, Transformers
- Large Language Models (LLMs)
- Retrieval-Augmented Generation (RAG)
- NLP & Semantic Search
- Embeddings & Vector Similarity
- Prompt Engineering & Evaluation
- Model Benchmarking & Error Analysis
- Hallucination Mitigation & Guardrails
- Feature Engineering & Data Preprocessing

Generative AI Systems

- LLM Application Design
- Context Management & Chunking Strategies
- Multi-step Reasoning Pipelines
- AI Agents & Tool-calling Workflows
- Structured Output Generation

Model Deployment & Inference Engineering

- Deploying ML models using Flask
- Building simple REST APIs for predictions
- Basic understanding of inference workflows and latency

Frameworks & Libraries

- Pandas, NumPy, Scikit-learn
- PyTorch, TensorFlow
- Matplotlib, Seaborn, Plotly
- Flask / FastAPI
- Hugging Face Transformers

Web Programming (Supporting Skills)

- HTML, CSS, JS (React/Next), TypeScript
- Responsive UI design (Bootstrap/Tailwind)
- Node.js & Express.js (backend development)
- Docker
- REST APIs & Async. Services

Database Management Systems

- DBMS/RDBMS fundamentals (normalization, indexing, transactions)
- MySQL (queries, joins, aggregations)
- PostgreSQL (relational database design and integration)
- modeling)

Programming Tools

- Git & GitHub
- VS Code / Jupyter Notebook
- Docker
- AI Agent based IDEs (Cursor/ Claude Code)

Programming Language

- Python (Primary)
- SQL, JavaScript, HTML, CSS (Supporting)

Soft Skills

- Problem-solving and Analytical Thinking
- Attention to Detail
- Flexibility and Active Learning
- Communication & Presentation
- Adaptability & Team Collaboration

Experience

Technetics IT Services – AI Engineer

Jul 2026 – Present | Surat, Gujarat, India

- Developing end-to-end AI/ML solutions using Machine Learning, Generative AI, RAG, and LLM integration for real-world applications.
- Building scalable AI workflows and integrating trained ML models with backend systems using FastAPI and REST APIs.
- Working on model development, evaluation, deployment, and intelligent automation to build production-oriented AI systems.

Technetics IT Services – AI/ML Developer Intern

Jan 2026 – Jun 2026 | Surat, Gujarat, India

- Built a Retrieval-Augmented Generation (RAG) based document question-answering system using embeddings, chunking, and semantic search.
- Developed and evaluated ML/DL models, including a Variational Autoencoder (VAE) for feature learning and anomaly detection.
- Integrated trained ML models with FastAPI prediction APIs and used Docker and Git/GitHub for deployment and version control.

Logicrest – Research Intern (Hardware Team Lead)

Nov 2025 – Jan 2026 | Surat, Gujarat, India (Remote)

- Led the hardware intern team in researching industrial-grade sensors for a Sewage Treatment Plant (STP) monitoring system.
- Evaluated pH, turbidity, TDS, dissolved oxygen, and flow sensors for real-time water-quality monitoring applications.
- Studied microcontroller and PLC-based automation architectures and contributed to designing sensor integration and data acquisition systems.

Projects

AI-Powered Resume Analyzer & Career Intelligence Platform – Demo

- Built an end-to-end AI-powered resume analysis platform providing Role Matching, ATS Scoring, Skill Gap Detection, and Career Path Recommendations using NLP and semantic similarity.
- Developed a hybrid matching and explainable ATS engine combining semantic embeddings, skill overlap, experience alignment, fuzzy matching, and keyword relevance for ranked job-fit scoring.
- Created an interactive multi-tab dashboard with radar charts, role scores, prioritized improvement suggestions, and structured report generation for actionable career insights.
- Implemented resume parsing and skill normalization pipelines to extract candidate information, identify skill gaps, and generate personalized career recommendations.

AI-Powered Logistics Intelligence & Command System – Demo

- Developed a human-in-the-loop AI logistics decision-support system for pre-dispatch shipment risk assessment using multi-factor analysis and structured validation pipelines.
- Built a hybrid Rule-Based + Decision Tree Classifier to evaluate route complexity, weather impact, vehicle feasibility, and urgency with explainable risk outputs.
- Created role-based Seller, Manager, and Supervisor dashboards with real-time weather integration, human overrides, audit logging, and decision traceability.
- Built an AI-driven workflow for intelligent shipment dispatch decisions.
- Implemented Explainable AI (XAI) and decision audit trails to provide clear risk explanations and ensure transparent, traceable logistics decision-making.

Pocket Planner – AI-Powered Personal Finance Management Platform – Demo

- Developed a full-stack personal finance platform for expense tracking, transaction management, analytics, and financial reporting
- Built an AI-assisted receipt processing pipeline using Gemini to extract and structure transaction data from receipt images.
- Implemented CSV bulk import/export, automated PDF reports, and scheduled email reporting for efficient expense management.
- Engineered a scalable architecture using React, TypeScript, Node.js, Express, MongoDB, JWT, and Cloudinary.
- Created interactive analytics dashboards to visualize spending patterns, category trends, and actionable financial insights.

Smart School Management System (SSMS) – AI-Powered Education Platform

- Developed an AI-driven school management platform integrating attendance, homework, academic performance, and digital learning.
- Built role-based portals for Students, Teachers, Parents, and Administrators with centralized academic management.
- Implemented a RAG-based AI Assistant for document-grounded academic support and context-aware responses.
- Integrated Variational Autoencoders (VAE) to analyze student performance patterns and generate learning insights.
- Developed AI-powered performance analytics to support personalized learning and data-driven academic decisions.

Education

Bachelor of Engineering in Information Technology

C.K. Pithawalla College of Engineering & Technology – Surat, Gujarat, India [2023 – 2027]

Higher Secondary Certificate (HSC) in Science Stream

Ashadeep IIT – Surat, Gujarat [2021 - 2023]

Secondary School Certificate (SSC)

K. & M. P. Sarvajani Vidhyalay – Surat, Gujarat [2019 - 2021]

Certifications & Achievements

- IBM - Python for Data Science, AI & Development - [Credential](#)
- Oracle Cloud Infrastructure 2025 Certified Data Science Professional - [Credential](#)
- Google - Crash Course on Python - [Credential](#)
- Google - Regression Analysis: Simplify Complex Data Relationships - [Credential](#)
- Google - Cloud Computing Foundations - [Credential](#)
- DeepLearning.AI - Generative AI for Software Development - [Credential](#)

Interests & Activities

- Learning about Generative AI and emerging ML trends through articles, tutorials, and research papers.
- Studying automation and control systems used in smart infrastructure and industrial operations.
- Participating in Technical discussions and sharing knowledge with peers.
- Experimenting with Automation tools and improving workflow efficiency