

Subhash Patel

MACHINE LEARNING ENGINEER

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Professional Summary

Smart India Hackathon 2025 Winner and aspiring Machine Learning Engineer with strong experience in Python, SQL, data analysis, and machine learning model development. Hands-on experience in real-world problem solving, predictive modeling, and data-driven insights through internships, hackathons, and academic projects. Seeking ML Engineer / Data Scientist roles to build scalable and impactful solutions.

Education

LNCT University, Bhopal

Bachelor of Technology – Computer Science & Engineering (AIML)

Expected Graduation: 2027

CGPA: 8.7/10

High School

Narmada Valley International School, Narmadapuram

Completed: 2023

Skills & abilities

- **Programming:** Python, SQL
- **AI & ML:** Machine Learning, Deep Learning, Agentic AI, LLMs
- **Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn
- **Data Visualization:** Power BI, Tableau, Excel
- **Web App & Deployment:** Streamlit for building interactive data and ML applications, HTML, CSS, Flask
- **Databases & Tools:** MySQL, Git/GitHub
- **Core Strengths:** Analytical thinking, Data storytelling, Team collaboration, Problem solving, Time management

Internship Experience

Data Handling using Python – MPSEDC

Duration: 2 Months

- Cleaned, preprocessed, and transformed structured datasets using Python (Pandas, NumPy) to improve data quality and consistency
 - Performed exploratory data analysis to identify trends, patterns, and anomalies in real-world datasets

- Prepared ML-ready datasets by handling missing values, outliers, and feature transformations
- Improved efficiency in large dataset handling through optimized data processing techniques

AI Engineering Intern (Agentic AI) - WiiZ (Estrel AI Limited)

- Built **end-to-end Agentic AI workflows** using a no-code orchestration platform.
- Developed **multi-agent systems** with LLMs, embeddings, APIs, and guardrails.
- Automated **PDF report generation** and **secure email-based delivery**.
- Applied **prompt engineering, orchestration logic, and evaluation workflows** for reliable AI outputs.

Projects

Weather Forecasting using Machine Learning

- Collected and pre-processed historical weather data; engineered features such as humidity, temperature, and wind speed.
- Trained **Linear Regression, Random Forest, and SVM models**, achieving ~98% prediction accuracy for temperature and rainfall trends.
- Tools: Python, Pandas, scikit-learn, Matplotlib.

Movie Recommendation System

- Built a **content-based filtering** model using **TF-IDF and cosine similarity** to recommend movies.
- Deployed the model as an interactive **web app** using **Streamlit**, allowing users to input preferences and receive instant recommendations.
- Tools: **Python, Pandas, scikit-learn, Streamlit**.

Hackathon & Achievements

Winner – Smart India Hackathon 2025 (Problem Statement ID: 25032)

- Role: Data, ML Mapping & Logistics Support
- Designed data workflows and supported ML model mapping for the problem solution
- Contributed to data preparation, analysis, and model alignment with problem objectives
- Collaborated in a cross-functional team to deliver a scalable national-level solution

Certifications

Introduction to Machine Learning on AWS | Coursera | 2023

- Gained hands-on experience with supervised and unsupervised learning
- Implemented ML models using AWS SageMaker, including data preprocessing, training, and deployment.

Getting Started with Python | University of Michigan, Coursera | 2023

- Learned Python programming fundamentals, data structures, and scripting for data analysis.

Databases for Developers: Foundations – (Oracle)

- Strengthened skills in SQL, relational databases, query optimization, and database design

Foundation to AI, Data Science & Data Analytics – (Coursera)

- Learned fundamentals of AI, data science workflows, and analytics techniques