Utkarsh Lakhani

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EDUCATION

Symbiosis Institute of Technology — Pune, India
Bachelor of Technology - AIML; GPA: 8.70 — *July 2023 - June 2027*
Courses: *Operating Systems, Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Databases*

Indian Institute of Technology — Chennai, India
Diploma - Data Science; GPA: 7.55 — *July 2023 - Present*
Courses: *Data Structures, Artificial Intelligence, Machine Learning, Databases, Data Analysis, Data Preprocessing, Data Management*

SKILLS SUMMARY

- **Languages**: Python, C, R, SQL, JAVA, HTML
- **Frameworks**: Scikit, NLTK, PySpark, TensorFlow
- **Tools**: GitHub, PostgreSQL, MySQL, SQLite, PowerBI, Excel, Prompt Engineering (ChatGPT, Perplexity)
- **Platforms**: Linux, Web, Windows, GCP, Streamlit cloud
- **Soft Skills**: Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

Microsoft & SAP - AICTE Internship — Remote
Student Developer (Full-time) — *Jan 2025 - Feb 2025*

- **AI Technologies Focus**: Participated in TechSaksham program, a joint CSR initiative by Microsoft & SAP, focusing on AI technologies.
- **Project Development**: Independently developed an AI-based project under expert mentorship, from problem identification to solution implementation.
- **Skill Enhancement**: Acquired foundational IT skills and industry-recognized credentials through a structured 4-week program.

Hackathons & Competitions — India
Participant & Finalist — *2023 - Present*

- **New India Vibrant Hackathon 2023 (Grand Finalist)**: Developed an AI-powered solution addressing a real-world problem.
- **Kwonnect & Entrepreneurial Meets**: Participated in multiple competitions focused on business strategy and innovation.

PROJECTS

- **Sportans - Sports Analytics Platform (Data Science, AI, Web Development)**: Developed a sports analytics platform providing insights using machine learning and data visualization. Tech: Python, MySQL, Streamlit, PowerBI (July '24)

- **Hindustani vs Carnatic Audio Classification (Machine Learning, Audio Processing)**: Developed an ML model to classify Hindustani and Carnatic music based on extracted features. Deployed via a Streamlit app. Tech: Python, Librosa, Scikit-learn, TensorFlow (November '24)

- **Loan Management System (Database Management, Web Development)**: Designed and implemented a complete loan management system with ER diagrams, relational schema, and sample data. Tech: MySQL, Python, Streamlit (October '24)

- **BDM Capstone Project - Coffee Shop Data Analysis (Business Data Management, Data Analysis)**: Analyzed customer behavior, sales trends, and operational efficiency of a coffee shop using data analytics techniques. Created dashboards for business insights and decision-making. Tech: Python, MySQL, Tableau, Pandas (Ongoing)

- **Life Expectancy Prediction Using Machine Learning (Predictive Analytics, Machine Learning)**: Developed a predictive model to estimate life expectancy based on health, economic, and environmental factors. Applied feature engineering and regression techniques for accurate predictions. Tech: Python, Scikit-learn, Pandas, Matplotlib (May '24)

- **Kyphosis Disease Prediction (Medical AI, Machine Learning)**: Built a machine learning model to predict the likelihood of Kyphosis disease post-surgery using patient data. Utilized decision trees and ensemble learning techniques for better classification accuracy. Tech: Python, Scikit-learn, XGBoost, Matplotlib (May '24)

RESEARCH WORK

- **Probability and Decision-Making in Self-Driving Cars (AI, Probability, Decision Theory)**: A research-based study on probabilistic models in autonomous vehicles, covering Bayesian networks, Markov decision processes, and real-world driving scenarios. (Oct '24)

- **Research Paper on Material Science, Aerospace Engineering**: Research on next-generation materials and Aerospace Engineering. (Ongoing)

Honors and Awards

- Grand Finalist at New India Vibrant Hackathon 2023
- Finalist at Entrepreneurial Meet at BITS Pilani, Goa Campus

Volunteer Experience

- **Documentation Team Head, Symbitech Techfest** — SIT, Pune
  Led the documentation team, overseeing report preparation and technical documentation. — *Jan 2025 - Feb 2025*

- **Technical Community Member, Google Developer Student Club** — SIT, Pune
  Participated in workshops, coding events, and technical activities. — *Sept 2024 - Present*

- **Events Team Member, Cyber Blockchain Club** — SIT, Pune
  Helped organize events related to cybersecurity and blockchain. — *Nov 2024 - Present*

- **Documentation and Media Team Member, Symbiosis Music Society** — SIT, Pune
  Managed event documentation and media content for society activities. — *July 2024 - Present*