

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.
 - Kwonnnect & 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
- Awarded a meritorious scholarship for securing 4th rank in both Semester 1 and Semester 2.

VOLUNTEER EXPERIENCE

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| • Documentation Team Head, Symbitech Techfest
<i>Led the documentation team, overseeing report preparation and technical documentation.</i> | SIT, Pune
<i>Jan 2025 - Feb 2025</i> |
| • Technical Community Member, Google Developer Student Club
<i>Participated in workshops, coding events, and technical activities.</i> | SIT, Pune
<i>Sept 2024 - Present</i> |
| • Events Team Member, Cyber Blockchain Club
<i>Helped organize events related to cybersecurity and blockchain.</i> | SIT, Pune
<i>Nov 2024 - Present</i> |
| • Documentation and Media Team Member, Symbiosis Music Society
<i>Managed event documentation and media content for society activities.</i> | SIT, Pune
<i>July 2024 - Present</i> |