

Aviral Vashistha

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EDUCATION

SRM Institute of Science and Technology

B.Tech. in Computer Science and Engineering

CGPA: 8.76/10

August 2022 – August 2026

Rainbow School

Intermediate

Percentage: 72%

March 2021 – May 2022

Rainbow School

High School

Percentage: 89.6%

March 2019 – May 2020

SKILLS

Languages: Python, C/C++, SQL (MySQL), HTML/CSS

Developer Tools: Git, GitHub, Linux, Latex, VS Code

Libraries: Pandas, NumPy, Matplotlib, Seaborn, SciKit-Learn, Selenium, BeautifulSoup

EXPERIENCE

Limendo | 📄 Experience Letter

Bengaluru

AI/ML Engineer Intern | Machine Learning, Python

December 2024 – June 2025

- Built Privacy Policy Analyzer processing 500+ websites using hybrid scraping (PoliPy, Selenium, BeautifulSoup) and GPT classification for enhanced compliance scoring.
- Developed automated legal document pipeline extracting/categorizing clauses from government PDFs, generating JSON outputs with word cloud and bar graph visualizations.
- Engineered scalable web scraping solution handling dynamic content with fallback mechanisms, improving data collection success rates across multilingual policies.
- Optimized ML workflows and prompt engineering for GPT API integration, fine-tuning classification accuracy and reducing manual review time.
- Collaborated in Agile environment managing parallel tasks while balancing academics, contributing to V2 architecture and testing frameworks.

Indian Institute of Technology, Roorkee | 📄 Certificate

Roorkee

Machine Learning Researcher - AMSC | Machine Learning, Python | 📄 Report File

June 2024 – July 2024

- Developed high-accuracy Alzheimer's detection model achieving 95.35% accuracy using Random Forest on 2,149-patient dataset with 33 clinical features.
- Benchmarked 5 ML algorithms across multiple train-test ratios, identifying optimal performance configuration through comprehensive comparative analysis.
- Implemented Explainable AI framework using LIME techniques to enhance model interpretability and identify key biomarkers for clinical decision-making.
- Designed comprehensive ML workflow with data preprocessing, hyperparameter optimization, and cross-validation techniques for robust model evaluation.
- Delivered research report under Dr. Millie Pant's supervision, demonstrating superior performance over traditional diagnostic methods.

ACHIEVEMENTS

Best Poster Award – IIT Roorkee

April 2025

- Secured Best Poster Award for presenting a project on Diabetes Prediction using Machine Learning during Foundation Day organized by the Department of Applied Mathematics and Scientific Computing.
- Poster highlighted data-driven insights and ML-based prediction models for early diabetes risk assessment.

Preliminary Asteroid Discovery at AIASC

July 2023 – August 2023

- Discovered a previously unidentified asteroid during the "All India Asteroid Search Campaign" by International Asteroid Search Campaign
- Learned to use Astrometrica software for finding unidentified asteroids from space images

Robotics Competition at IIT BHU

March 2023

- Secured 2nd position in my college for solving the given problem statement using Arduino UNO and selected for Robotics Competition in IIT BHU.
- In IIT BHU built a maze-solving robot using Arduino Nano. Team was selected for finalist round.

PROJECTS

- Diabetes Risk Prediction System** | *Python, ML, XAI* |  Github Repository April 2024
- Developed ML classification system on 10,000+ patient dataset achieving optimal performance with Random Forest (RMSE: 0.166, MAE: 0.027)
 - Benchmarked 6 algorithms (Random Forest, XGBoost, SVM, Logistic Regression, MLP) with GridSearchCV hyperparameter optimization
 - Implemented LIME explainable AI framework identifying glucose and HbA1c as key clinical predictors for medical interpretability
- Student Performance Prediction System** | *ML, Flask, Python* |  Github Repository September 2024
- Built end-to-end ML pipeline predicting academic performance using 8 socio-economic features with Linear Regression as optimal model
 - Developed Flask web application with interactive interface for real-time performance predictions and user input validation
 - Engineered modular ML architecture with automated data ingestion, transformation, and prediction components using multiple regression algorithms
- Flight Management Database System** | *MySQL, Database Design* |  Github Repository April 2024
- Designed normalized relational database with 7 interconnected tables managing airports, flights, passengers, and transaction workflows
 - Implemented automated booking system using SQL triggers and stored procedures, reducing manual operations through event-driven updates
 - Created comprehensive database views for flight details and transaction summaries, optimizing query performance for complex joins
- Voice-Controlled Desktop Assistant** | *Python, Speech Recognition* |  Github Repository November 2023
- Built intelligent assistant with speech recognition supporting 15+ voice commands including web browsing, email, and system control
 - Integrated multiple APIs (Wikipedia, News, Weather) with text-to-speech capabilities for seamless voice-based user interaction
 - Designed modular architecture enabling easy feature expansion with background management and note-taking functionality

VOLUNTEERING

- Electronica@SRMIST - Delhi NCR** |  LinkedIn February 2023 – Present
- Founder*
- Founded a student tech club to promote hands-on learning beyond classroom curriculum.
 - Organized 10+ workshops, speaker sessions, and hackathons, growing the club to 50+ active members.
 - Developed partnerships with industry professionals and faculty to support mentorship and collaborative events.