

Aviral Vashistha

+918923111031 | aviral.vashistha@gmail.com | linkedin.com/in/aviral-vashistha | github.com/aviralvashistha | aviralvashistha.com

EXPERIENCE

Indian Institute of Technology, Roorkee

June 2024 – July 2024

Machine Learning Researcher - AMSC — Machine Learning, Python

- Research Advisor : Dr. Millie Pant (HoD- AMSC)
- Developed an Alzheimer's Disease Detection Model using Machine Learning and Python.
- Implemented explainability of models using *Explainable AI (XAI)* methods.
- Used Alzheimer's Disease Dataset from Kaggle.
- View Report File

RESPONSIBILITIES

Microsoft Learn Student Ambassadors SRM Community

Jan 2024 – Present

Core Member

- Contributing to building the MLSA SRM Community.
- Encouraging tech development, and fostering mutual growth among like-minded fellow students.

Electronica@SRMIST - Delhi NCR

Feb 2023 – Present

Founder

- Founded Electronica@SRMIST: Established the club to enhance technical skills beyond traditional classroom learning.
- Led activities and recruitment: Planned workshops, events, and implemented strategies to attract members.
- Industry networking and development: Built a network within the industry and academia, and currently developing a club website.

EDUCATION

SRM Institute of Science and Technology

CGPA: 8.64

B.Tech. in Computer Science and Engineering

Aug 2022 – Aug 2026

PROJECTS

Student Performance Prediction Model | Machine Learning, Python, Flask, HTML, CSS

July 2024

- Developed a prediction model to evaluate and predict student performance based on various metrics.
- Utilized Flask for the backend and deployed the model to make it accessible via a web interface.
- GitHub Link

Alzheimer's Disease Detection Model | Machine Learning, Python, Numpy, Pandas

June 2024 – July 2024

- This work is done under IIT Roorkee AMSC (Applied Mathematics and Scientific Computing) Department.
- Developed an Alzheimer's Disease Detection Model using Machine Learning and Python.
- Implemented explainability of models using *Explainable AI (XAI)* methods
- GitHub Link

ACHIEVEMENTS

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.

ACADEMIC PROJECTS

Flight Management System | SQL (MySQL)

July 2024

- Developed Flight Management System: Implemented a database to manage flights, passengers, tickets and payments.
- Enhanced functionality: Created views, triggers, and stored procedures for detailed insights and automated processes.
- Database optimization: Conducted schema modifications and maintenance to ensure system efficiency.
- GitHub Link

Desktop Assistant | Python

June 2024 – July 2024

- Desktop assistant: Performs tasks like fetching Wikipedia info, opening web pages, sending emails, and playing music
- Voice interaction and control: Uses speech recognition for commands and performs system actions
- Additional features: Includes weather updates, news, time display, background changes, and note-taking
- GitHub Link

TECHNICAL SKILLS

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

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

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