

# Aviral Vashistha

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## 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

### 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