

MAYANK MATHUR

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SUMMARY

Computer Science and Engineering (Btech) Graduate currently pursuing MS in Robotics and Autonomous Systems from Arizona State University. Worked on multiple projects based on computer vision, deep learning, and robotic automation. Currently seeking internship opportunities.

EDUCATION

MS Robotics and Autonomous Systems (Systems Engineering), Arizona State University, USA	May 2023	3.78
B.tech Computer Science and Engineering Vellore Institute of Technology, India	May 2020	7.88/10

TECHNICAL SKILLS

- **Programming:** Python, C, Javascript, MATLAB.
- **Backend:** Flask, Node JS.
- **Robotics:** ROS, Simulink, Gazebo, Arduino, Raspberry Pi, Pixhawk flight controller.
- **Cloud Platforms:** Amazon Web Services, Google Cloud Platform.
- **Machine Learning Frameworks:** TensorFlow, Keras, Pytorch.
- **Other:** Linux, Managing Linux Servers, Git.

PROFESSIONAL EXPERIENCE

Machine Learning Engineer at Xane AI <ul style="list-style-type: none">• Trained multiple deep learning models for computer vision on PyTorch and Fast.ai and deployed them on AWS.• Made and labeled datasets for vision models.• Created chatbots and text classification models.	August 2020 - July 2021
Technology Head at RentBaaz <ul style="list-style-type: none">• Created chatbots and recommendation systems for the website.• Developed Frontend for the main website using AngularJS.• Supervised other interns working on the website.	March 2019 - February 2020
Full Stack Developer Intern at RupeeGo <p>Developed a PDF parsing website for the company using Flask.</p>	May 2019 - June 2019

PUBLICATIONS

Detecting Safe Routes During Floods Using Deep Learning. International Journal of Big Data Intelligence and Applications (IJBDA), 1(1), 23-35

Lead Author. Paper proposes a method to extract roads from satellite and drone images using deep learning algorithms.

Mind Wave Controlled Prosthetic Arm Without Using Brain Implants. A paper published in IJRTE, Volume 8 Issue 5.

In this paper, we use an EEG headset to control a robotic arm.

PROJECTS AND EXTRACURRICULAR

Android App-controlled Robotic Arm <p>Built a robotic arm that could be controlled using an android app over Bluetooth using an ESP32 microcontroller.</p>	Fall 2021
Student Unmanned Aerial Systems 2018 Competition by AUVSI <ul style="list-style-type: none">• Developed computer vision algorithms for object detection in Python.• Created algorithm for vision-based autonomous obstacle avoidance and path planning.• Handled the communications from the drone to the ground station.	August 2017- June 2018 Rank:43/70
Student Unmanned Aerial Systems 2019 Competition by AUVSI <ul style="list-style-type: none">• Position: Team Captain.• Point of contact for the team and the competition.• Supervising the CS department for Computer Vision and Autonomous Path Planning.	July 2018 - July 2019 Rank:44
Member of SEDS VIT and SEDS INDIA.	July 2017-July 2019

ACHIEVEMENTS

Special Achievers Award in recognition of extracurricular achievements in international events, VIT Vellore.