

Manas Joshi

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[Linkedin](#) | [Youtube](#) | [Github](#) | [Website](#)

TECHNICAL SKILLS

Computer Languages: Python, Julia, RISC-V Assembly, C, C++, JavaScript, Bash, HTML/CSS

Framework: TensorFlow, RL-Glue, Scikit-learn, Django, Flask

Technologies: Git, MySQL, Leafletjs api, OpenWeather api

PROJECTS

[SkyNav](#) — *Python, Scikit-learn, Flask, JavaScript, HTML, CSS*

SkyNav is a real-time navigation system designed to assist small aircraft, helicopters, and drones in reaching their destination safely and efficiently

[Math-Vision-Model](#) — *Python, TensorFlow, Matplotlib*

A machine learning model using probabilistic distribution in TensorFlow to predict characters in images, with Python and Matplotlib for visualization and analysis.

[Math-Vision-OCR](#) — *Python, TensorFlow*

A simple GUI that fetches models from my database and utilizes model's character prediction to solve simple math equations.

[natHACKS 2023 - Video Game](#) — *Unity, C#, C++*

Developed an innovative video game that parametrizes the player's experience based on their ECG data to create personalized gameplay dynamics.

EDUCATION

University Of Alberta — Second year — BSc Hons Computing Science

Sept 2023 - April 2024

Relevant Coursework:

CMPUT 272: Formal Systems and Logic

CMPUT 267: Basics of Machine Learning

CMPUT 204: Algorithms I

CMPUT 229: Computer Organization/Architecture I

CMPUT 365: Reinforcement Learning

OPG World School, New Delhi, India — Grade 11 & 12

April 2021 - March 2023

COLLABORATIVE EXPERIENCE

Collaborated in a team of Four at HackED 2025, contributing to the development of SkyNav a navigation technology for small aircrafts.

Contributed towards Supervised imitation learning of the Forest classifier model used for finding optimal routes and integrating an interactive real-time route on the server side using leaflet.

Collaborated in a team of five at natHACKS 2023, contributing to the development of the video game.

Incharge of Arduino Development for project "[NightMare](#)" collects heartbeat of the user using bioAMP pill via the device

INTERESTS

Building projects with peers

Working out at the gym