

Aditya Prakash

Junior Undergraduate
Department of Aerospace Engineering
Indian Institute of Technology Kanpur

adityaap@iitk.ac.in ✉
prakashaditya369 🐙
prakashaditya369.github.io 🌐
(+91)7294014541 ☎

EDUCATION	Indian Institute of Technology Kanpur B.Tech, Aerospace Engineering 2019–2023 (Expected) 9.0/10.0
	BNS DAV Public School, Giridih CBSE - XII 2019 97.6%
	BNS DAV Public School, Giridih CBSE - X 2017 10.0/10.0

INTERESTS	Deep Learning, Natural Language Processing, Web Development, Open Source, Astrodynamics, Control Theory, Propulsion, Computational Neuroscience, Cognitive Psychology
-----------	---

TECHNICAL SKILLS	Programming Languages: JavaScript, Python, C, C++
	Libraries: Numpy, Tensorflow, PyTorch, OpenCV
	Web: React, Node.js, MongoDB, Flask, Canvas
	Utilities: Git, L ^A T _E X, LabView, MATLAB

KEY PROJECTS	Project Ekatra Github ↗ Website ↗ Self Project Nov'20 – Jan'21 <ul style="list-style-type: none">– Developed a full-stack web application using the MERN stack and worked primarily on the frontend using ReactJS– Used word embeddings to recommend similar resources based on user's history– Converted the project into an opensource organisation with automated testing, building and hosting using Github
	Algorithm Visualizer Github ↗ Website ↗ Self Project Dec'20– Jan'21 <ul style="list-style-type: none">– Built and deployed a React website for visualizing various computational algorithms– Implemented backtracking and various sorting and graph algorithms, including A* and Dijkstra's
	LeibTon Github ↗ Website ↗ Self Project Nov'20 – Dec'20 <ul style="list-style-type: none">– Designed and deployed my portfolio website using HTML5, CSS3, Vanilla Javascript– Used anime.js and greensockJS to add animation and canvas for image effects and interactions
	Facebook Hateful Memes Challenge Github ↗ Self Project Sep'20 <ul style="list-style-type: none">– Extracted visual features using pretrained CNN classifier models, namely ResNet and Incetionv3– Used LSTM, Word Embeddings and Attention Models to learn textual features– Implemented different multi-modal models to learn relation between textual and visual features
	Decoding relation b/w voxels & pixels Github ↗ Prof. Gordon Berman [Neuromatch] July'20 <ul style="list-style-type: none">– Worked in a team of 4 members to decode semantic features from different ROIs of the visual cortex– Extracted semantic features using different classifier DNN's last layers, namely of Resnet50 & VGG16– Tried dimensionality reduction and clustering techniques to find some clusters among voxel responses

[Github](#)

July '20

- ## PETcat (vision)

[Github](#)

Apr '20


- ## Small Projects

- Gender Predictor for Indian Names using Bidirectional LSTM ↗

- OPEN
SOURCE

Commit

- CONTRIBUTIONS Openlibrary

Commit 

- ## PROJECTS MENTORED

Document 

May'21 - July'21

RELEVANT COURSES

Fundamental of Computing Data Structures and Algorithms Linear Algebra

(Online Courses)

Aerospace Courses

Fluid Mechanics Dynamics Thermodynamics

Incompressible Aerodynamics Mechanics of Solids Experiments in Aerospace Engineering-I

WORKSHOP

Neuromatch Academy

July '20

POSITIONS OF RESPONSIBILITY

Counselling Service, IITK

Nov'20 - Present

- Counselling Service, IITK

Nov'20 - Present

- Brain And Cognitive Society, IITK

July'20 - July'21

- Start-up Internship Program, E-cell, IITK

April'20 - April'21

- Reasoned with start-ups and convinced them to register for SIP, E-cell
- Helped in the smooth conduction of SIP program