Aditya Prakash

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EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY, MANDI

B.Tech - M.Tech in Bioengineering

Graduation | July 2025 | Fourth Year

Cumulative GPA | 7.34 / 10

VIDYA BHARATI CHINMAYA VIDYALAYA, JAMSHEDPUR

AISSCE 2020 | 91.6%

AISSE 2018 | 95.6%

COURSEWORK

Basic bioinformatics • Applied biostatistics • Data science • Biosensing and bioinstrumentation • Biomaterials • Computer organization • Signals and systems • Linear algebra • Deep learning and its applications • Biomodeling and simulation

SKILLS

PROGRAMMING

Languages |R • Matlab • Perl • Python

TOOLS

OpenCV • TensorFlow • Pytorch • Scikit Learn • Unity3D • Framsticks • Anvil • Django • LaTeX • Nengo • Nengo DL • Dash • JAX • Cupy

ACHIEVEMENTS

3rd Prize | GameJam Youth Conclave INSERB INDIA IIT Jodhpur |GameDev competition

3rd Prize | National Creativity Olympiad | The Institution of Engineers

AIR 1 | Narayana Scholastic Aptitude Test (2018)

EXPERIENCE

Analytics Internship (July - Sep 2021) | Henry Harvin

Research fellowship - Python package for cellular automata and ALife research | IIT Jodhpur

CERTIFICATIONS

Certified Machine Learning Practitioner Apr 2021 | Henry Harvin

Advanced Neurobiology II | Coursera | Peking University

Fundamentals of Neuroscience (Audit) | HarvardX

Computational Neuroscience (Audit) Coursera | University of Washington

POSITIONS OF RESPONSIBILITY

Coordinator | Kamand Bioengineering Group (2022 - 2023) | IIT Mandi

Student Coordinator | ATAL Tinkering Lab | Vidya Bharati Chinmaya Vidyalaya

PROJECTS

Customizable hand gesture recognition and computer control toolkit with CNN

Breast cancer detection platform with TensorFlow and Anvil

N-dimensional continuous cellular automata

Segmerlin - LightGBM based image semantic segmentation

ICU monitor vital extraction using ViT YOLO

HIVE - evolving swarm agents using spiking neural nets

NeuRythmia - Python package for working with EEG data in machine learning applications

OptiHive - Python package for biomimetic optimization algorithms

https://github.com/adityaprakash-work

Last Update | 28 March, 2023