Kousik Rajesh

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EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY, GUWAHATI

BTECH IN COMPUTER SCIENCE AND Engineering Exp 2022

9.66/10.0 Grade Point Average

RYAN INTERNATIONAL **SCHOOL** CBSE

2016 - 2018 | Greater Noida Senior Secondary: 97.4% | Ranked first High School CGPA: 10.0/10.0

COURSEWORK

Deep Learning Specialization

- Neural Networks
- · Hyperparameter tuning
- Structuring ML Projects
- Convolutional Neural Networks
- Sequence Models

Machine Learning

Version Control with Git

Linear Algebra(Mathematics II)

Algorithms and Data Structures*

System Software Lab*

Discrete Mathematics*

Probability Theory and Random Processes*

Number Theory and Algebra*

SKILLS

PROGRAMMING

Languages:

Python • C++ • C • JavaScript* • Shell*

Frameworks and Libraries:

TensorFlow • Keras • Pandas • Sklearn • Numpy • OpenCV

Miscellaneous:

Git • Data Analysis • Web Scraping • HTML ACHIEVEMENTS

- CSS* ROS Arduino SQL LATEX*
- * Elementary Proficiency

PROJECTS

RAMAN | HUMANOID ROBOT

Ongoing | 4i Labs, IITG

• Project Raman is a powerful android robot being designed in the form of an adult human and supports face recognition, head tracking and chatbot capabilities

VIEW 🛂

VIEW 🔼

VIEW 🔼

VIEW 🔼

- Currently working on the hands and enabling Raman to replicate human poses in real time
- Tried implementing different convolutional models for 3D human pose estimation from RGB-D data captured using Intel® RealSenseTM cameras.

RUBIK'S CUBE SOLVER

March 2019 | Robotics club, IITG

- A Rubik's cube solving bot using Computer Vision which scans and solves a 3x3 Rubik's cube
- Implemented a unique unsupervised learning based method for color classification of Rubik's cube
- Created a GUI for displaying cube state

LEAF CLASSIFICATION

October 2019 | Kriti 2019

- A convolutional model for leaf classification of the Northeastern United States 185 tree species dataset
- Achieved a classification accuracy of 88% on test data

ENIGMA VIEW 🔼

Ongoing | Personal Project

- Using Deep Learning to crack ciphers such as the Caesar and Vigenère cipher
- Implemented LSTM models which were able to learn the ciphertext with close to 100% accuracy

BROWSING BAD

July-August 2019 | Technothlon 2019

- A multilevel interactive web-based puzzle game for the mains event of Technothlon
- Implemented front end of several interactive brain-teasers using Bootstrap and **JavaScript**

POSITIONS OF RESPONSIBILITY

- Core Team Member at IITG.AI
- Core team Member at 4i Labs, IITG
- Project Manager at Equinox Astronomy club, IITG
- Organizer, Technothlon

2018-2019	Hacktoberfest	Made 4 open source contributions
2019	2 nd position	Leaf classification ML hackathon
2019	In National Top 25 teams	AI Hackathon organised by CDAC and NVIDIA
2017-2018	Top 1%	KVPY(SX) Fellowship
2015-2016	Top 1%	NTSE Scholarship

^{*} Ongoing courses