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*
* Ongoing courses

SKILLS

PROGRAMMING
 Languages:
Python • C++ • C • JavaScript* • Shell*

 Frameworks and Libraries:
TensorFlow • Keras • Pandas • Sklearn • Numpy • OpenCV

 Miscellaneous:
Data Analysis • Web Scraping • HTML • CSS* • ROS • Arduino • SQL • LATEX*
* Elementary Proficiency

PROJECTS

RAMAN | Humanoid robot   VIEW
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
- 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® RealSense™ cameras.

RUBIK'S CUBE SOLVER   VIEW
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

ROBOTIC ARM   VIEW
October 2018 | Kriti 2018
- A 2 joint robotic arm that locates and pops balloons using computer vision
- Implemented a balloon detection system on OpenCV using image processing techniques such as filtering, HSV colour masking and contour detection

CHAT STATS   VIEW
Ongoing | Personal Project
- A tool which provides various statistics and visualisations of a chat history(WhatsApp/Telegram)
- Provides stats such as message frequency, time distribution of messages, average response time etc.

BROWSING BAD   VIEW
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**

ACHIEVEMENTS

2018-2019	Top 10	Ranked in Top 10 in the Institute
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