



RAHUL MAHANOT

Electronics and Communication Engineering
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Degree	Institute	Year	CGPA / %
B. Tech (ECE)	IIT Bhubaneswar	2020	7.83
Intermediate / +2	S S Academy Junior College, Guwahati	2016	90

WORK EXPERIENCE

RESEARCH INTERN, Tata Consultancy Services Research and Innovation Labs, Kolkata May '19 – July '19
Conversion of a Tensorflow model to Core ML, Analyzing and Processing Visual and Audio data

- Developed a python application to convert an Auto Encoder model written in Tensorflow to Core ML format
- Contributed to open source libraries – **Apple coremltools**, **tf-coreml** and **MPI-IS mesh** library
- Built an automated end-to-end pipeline for generating video frames of facial movement synced with audio
- Worked on video processing for input to a GAN model, testing, evaluation and integration of model output frames to generate a video synced with the previously extracted audio

RESEARCH INTERN, Indian Institute of Space Science and Technology Dec '18 – Jan '19
Abstractive Text Summarization using Neural Attention based sequence-to-sequence model

- Developed a model to generate concise summaries in less than 10 words for articles longer than 200 words
- Used DUC dataset and compared performance of character and word level models
- Repository Link: https://github.com/Mahanotrahul/NLP_Text_Summarization

RESEARCH INTERN, Prajjawala Systems and Solutions Pvt. Ltd. May '18 – July '18

- Worked on interfacing various sensors over *UART* and *I2C* using raspberrypi
- Wrote technical content for a patent filed for a product developed as part of this project
- Worked in a 6 member team to develop a minimum viable product

Program Manager and Developer Intern, Vasitars Pvt. Ltd. May '17 – July '17

- Developed a website and employee attendance and information management portal
- Programming languages used: PHP, SQL, JavaScript, jQuery, etc.
- Repository Link: https://github.com/Mahanotrahul/EIMS_Web_App

KEY ACADEMIC PROJECTS

Smart India Hackathon – 2019 Mar '19

- Won 3rd Prize and a cash reward of INR 50K at Smart India Hackathon – 2019
- Developed a web-app in PHP and SQL that provides payment services and handles communication between an android app and the server in the backend.
- Repository Link: https://github.com/Mahanotrahul/Retailer_Web_Portal

Edge-Computing and IoT based Automation and Optimization of Sensors Distributed System 2018

- Project awarded by the NRDC, Govt of India as one of the top 5 innovative student projects in India for the year 2018
- Developed python application that enabled communication over IoT based LoRaWAN network

Deep Learning based Neural Style Transfer using Convolutional Neural Network Aug '18

- Developed a Convolutional Neural Network that combines different artistic images to create new art
- Compared runtime performance and accuracy of the model on a Tesla K80 GPU and 8GB RAM CPU

Chat Box using Sockets Mar '18

- Developed a socket based chat box that allows multiple users to connect over a network and chat
- Repository Link: https://github.com/Mahanotrahul/Chat_Box_Sockets

ACHIEVEMENTS

- Awarded the **National Budding Innovators Award** – 2018 along with a cash reward of INR 1 Lakh conferred by the National Research Development Corporation(NRDC), Govt of India
- Won the **Tata Grand India IoT Innovation Challenge** (GIOTIC) along with a cash reward of INR 5 Lakh hosted by Tata Communications and Confederation of Indian Industry(CII)
- Won 3rd prize and a cash reward of INR 50K at Smart India Hackathon – 2019 in Students Innovation
- Received Smart Innovator Award by Prof. R V Raja Kumar, Honorable Director, IIT Bhubaneswar in Jan, 2019
- Received best business-plan presentation award at VGSOM, IIT Kharagpur in Feb, 2018
- Recipient of MCM scholarship for the last three years by Govt of India

Patent

Method of and apparatus for automation and optimization of LPG cylinder distribution system

Indian Patent Application Number: 201811018360, filed in 2018, Patent Pending.

TECHNICAL SKILLS

- Programming Languages: Python, C, C++, PHP, SQL, Matlab, JavaScript
- Libraries and Frameworks: Keras, Tensorflow, OpenCV, Matplotlib, scikit-learn
- Software and IDEs: Visual Studio, Anaconda, MS Office

POSITIONS OF RESPONSIBILITY

Microsoft Student Partner, Microsoft, 2017 – 2018

- Conducted a seminar on developing Human Like AI using deep learning
- Participated in the Microsoft Students' Summit 2017

Former Governor, Nakshatra - The Astronomy Society of IIT Bhubaneswar

- Organized several workshops on using telescope for institute students
- Governed various initiatives taken up by the society to encourage students to pursue research in related field

Member, Design and Innovation Centre, IIT Bhubaneswar

- Organized and managed Intra-institute innovation competitions
- Conducted seminars on Programming in Python

Technical Coordinator and Developer, ALMA FIESTA, IIT Bhubaneswar

- Developed website and registration portal for cultural festival of IIT Bhubaneswar

EXTRA-CURRICULAR ACTIVITIES

- Presented a Case-Study report on JUNO spacecraft and exoplanets at NSSC 2017, IIT Kharagpur
- Published poems and stories in Odisha magazine Nagrik