Rutika Moharir

VIIIth Semester, Bachelor of Technology
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ACADEMIC DETAILS

Degree/Examination	College/School	Year of Passing	GPA/ Percentage
Bachelor of Technology (Hons.) Computer Science and Engineering	Indian Institute of Technology (ISM) Dhanbad	2019	8.55
All India Senior School Certificate Examination, CBSE	Narayana Vidyalayam, Nagpur, Maharashtra	2014	90.2
All India Secondary School Examination, CBSE	Centre Point School, Nagpur, Maharashtra	2012	10

INTERNSHIPS

Samsung Research Institute, Bangalore (May'18 – July'18)
Applicative | IOT

- Worked on an IOT based project developing a home automation system prototype, where the Samsung Smart watch – Gear S3 was used as a universal remote to control the surrounding electronic devices. The BLE protocol was used for controlling and gesture supported was integrated for user convenience,

- Internship offered as a result of wining the Bixby Hackathon conducted by Samsung Research Institute, Bangalore at IIT(ISM) Dhanbad in March 2018.

KEY PROJECTS

- **Deep Learning- - Tharoor - It (**March'18**)**

  (Under Hackfest'18 IIT(ISM) Dhanbad)

  Built an anti-fraud detection system – A lightweight web application capable of taking a piece of text as input and estimating the probability of it being written by Dr. Tharoor by bluding a LSTM network over the collected data.

- **Machine Learning – Sentiment Analysis (**July '17 – November '17**)**

  Identifying and classifying opinions or sentiments, especially useful in crowdsourcing feedbacks and general opinion through Social Media Buzz**.**

- **DBMS- - AuctionBase** (December '17 – April '18)

  Analyzed and parsed the large volume of data downloaded from eBay website and designed a good relational schema for it. Implemented triggers and various integrity constraints in order to maintain data integrity and consistency. Developed back-end to manage AuctionBase data using the SQLite database management library and user friendly front-end for real time auction.

- **Operating System – Linux** (October '17 – November '17)

  Implemented Shell scripting, CPU process scheduling and page replacement algorithms and evaluated their relative performance.

- **Implementation and Application of Firefly Optimization Technique** (July' 16-April' 17)

  Research Project on Firefly Optimization Technique - A Meta-heuristic inspired by communication through luminescence exploited by fireflies as a mode of communication and attracting other members of the population along with exploring the domains of its applications by surveying its efficiency on various optimization problems.

TECHNICAL SKILLS

Programming Languages: C, C++, Python
Software and utilities: Pytorch, Keras, Tensorflow, NumPy, Git, Visual-Studio
Platforms: Windows, Linux

COURSEWORK

MATHEMATICS: Linear Algebra, Probability, Discrete Mathematics, Differential and Integral Calculus, Partial and Ordinary Differential Equations, Numerical and Statistical Methods

COMPUTER SCIENCE : Data Mining, Artificial Intelligence, Computer Graphics, Operating Systems, Computer Architecture, Theory of Computation, Computer Networks, Object Oriented Programming, Algorithm Design and Analysis, Database Management Systems, Compiler Design, Parallel and Distributed Computing

ONLINE COURSES:
Introduction to Deep Learning with Pytorch (Pytorch Schlorship Challenge from Facebook on Udacity)
Deep Learning Specialization (offered by deeplearning.ai)
Machine Learning (Stanford University, offered by Coursera)

ACHIEVEMENTS AND EXTRA CURRICULAR

- 6th position Hackfest'18, a 56 hour Hackathon conducted by Dept. of CSE, IIT(ISM) Dhanbad
- 2nd position QuizWiz'17, an annual quizzing competition held by Dept. of CSE, IIT(ISM) Dhanbad
- Member of the organizing team at 4th International IEEE conference RAIT 2018, held in at IIT(ISM) Dhanbad.
- Secured All India Rank of 6605 in General Category among more than a million applicants in JEE Advanced 2015 conducted for admissions into IIT's and NIT's.