Tanmay Moghe

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EDUCATION

BITS, PILANI
B. E. (Hons.) in Computer Science
Jul 2021 | Pilani, Rajasthan
GPA: *7.1 / 10.0 (after 7 semesters)

HSC | CLASS XII
P Jog Junior College
Maharashtra State Board
May 2017 | Pune, Maharashtra
88% | In top 0.1% of candidates

SSC | CLASS X
Loyola High School
Maharashtra State Board
May 2015 | Pune, Maharashtra
94% | School Silver Medal

LINKS

Github:// @tanmaymoghe
LinkedIn:// @tanmaymoghe

COURSEWORK

UNDERGRADUATE
Data Structures and Algorithms
Object Oriented Programming
Operating Systems
Computer Networks
Compiler Construction
Neural Networks and Fuzzy Logic
Information Retrieval

MOOCS
Coursera - Deep Learning Specialization by deeplearning.ai

Coursera - TensorFlow in Practice by deeplearning.ai

Coursera - Machine Learning Specialization by The University of Washington

SKILLS

PROGRAMMING
Over 5000 lines:
C • C++ • Python • Javascript
Familiar:
Django • React.JS • Java • MySQL
TensorFlow • PyTorch

HOBBIES

Football • Mobile Photography • Competitive Programming

EXPERIENCE

SAMSUNG RESEARCH INSTITUTE, DELHI | Software Engineering Intern
May 2020 – Jul 2020 | Delhi
- Developed a web application for development tracking using Django and React.JS in order to show the product status and provide the option to extract it.
- To generate this, an excel file with detailed bug reports was required as input.

CSIR - CEERI | Deep Learning Intern
Jan 2020 – May 2020 | Pilani, Rajasthan
- Worked under Dr. Dhiraj Sangwan to detect threat objects in X-Ray scans.
- Implemented multiple techniques (3D object recognition, Bag of Visual Words, Dual Input CNNs, etc.) that integrated multiple views.
- Work accepted at Indicon 2020.

VOICEQUBE | Software Development Intern
May 2019 – July 2019 | Bangalore, Karnataka
- Built a 'GRE Tutor' Alexa Skill, a voice-application training and revision module for GRE Verbal Section using Alexa Developer Console and Node.JS.
- It has a repository of more than 1100 words and also includes a revision module with user-defined difficulty levels. The user's progress is tracked throughout.

PROJECTS

ERPLAG COMPILER
Jan 2020 – May 2020 | Compiler Construction CS F363
- Designed a Compiler, written in C, for a toy language ERPLAG. The compiler translates ERPLAG source code into the corresponding NASM code.

VECTOR SPACE BASED IR SYSTEM
Jan 2020 – May 2020 | Information Retrieval CS F469
- Built a ranked retrieval based IR system in Python. The vector space model was used to compute scores between documents and search queries.
- Two improvements were also implemented - considering only high idf terms and rigourous multiple word query checking.

REVIEW PAPER
Jan 2020 – May 2020 | Information Retrieval CS F469
- Wrote a review (3 pages) of the paper – "Mention Recommendation in Twitter with Cooperative Multi-Agent Reinforcement Learning" (SIGIR 2019).
- Mentioned the limitations of the paper and gave suggestions for improvement.

SLAM - SIMULTANEOUS LOCATION AND MAPPING
Sept 2019 – Dec 2019 | Neural Networks BITS F312
- Implemented a neural network model using Keras as a solution to the SLAM problem and it uses a recurrent LSTM structure.
- Developed a simulation in Python of a rat undergoing colliding motion in random 10-sided polygons to generate the data set for training the network.

AWARDS AND ACHIEVEMENTS

2019	3rd/54	Microsoft code.fun.do Campus Blockchain Hackathon
2017	AIR 2945	JEE Main, 2017 (more than 10,00,000 candidates)