

Arpan Mukherjee

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Education

- 2017–2019 **IIIT–Delhi, India**, *M.Tech*, Computer Science, Data Engineering.
Thesis: Analyzing user discussion dynamics on social media platforms
Advisor: Dr. Tanmoy Chakraborty
- 2012–2016 **Bengal Institute of Technology–Kolkata, India**, *B.Tech*, Information Technology.
CGPA: 8.34/10

Work Experience

- June 2019– **Software Engineer**, MICROSOFT.
Present ◦ Working as developer to enhance extensibility platform for Outlook on iOS
- Aug 2016– **Asst. Software Engineer Trainee**, TATA CONSULTANCY SERVICES.
Jun 2017 ◦ Worked on Python based web application named as CADXXX-ALCOA
◦ Learning profile was C++ and UNIX

Publications

- Jul 2019– **Automatic Curation of Content Tables for YouTube Videos**, [PDF].
Paris, France ◦ Authors: **A. Mukherjee**, S. Tiwari, T. Chowdhury, T. Chakraborty
◦ Demo paper accepted at the ACM-SIGIR, 2019
- Nov 2019– **Battlefield: Quantifying and Modeling Intra-community Conflicts in Online Discussion**, [PDF].
Beijing, China ◦ Authors: S. Dutta, G. Kaur, S. Mongia, **A. Mukherjee**, D. Das, T. Chakraborty
◦ Full paper accepted at the ACM-CIKM, 2019

Projects

- Mar 2018– **Automatic Summarization of Sporting Events using Tweets**, Dr. Tanmoy Chakraborty, IIIT Delhi.
May 2018 ◦ Implemented extractive summary generator for any sporting events
◦ Based on the posted tweets summary will be generated
- May 2018– **Detecting Semantic Similarity in Questions**, Dr. Richa Singh, IIIT Delhi.
Nov 2018 ◦ Implemented a system which we can detect similar questions on syntactic level
◦ Both questions are syntactically same, if they can be answered by same answer
◦ Achieved 82% accuracy, by using QUORA dataset(SOTA: 85%).
- Jan 2019 – **Let The Machine Learn Comprehension**, Dr. Saket Anand, IIIT Delhi.
May 2019 ◦ Successfully built deep learning-based models for machine comprehension which achieved F1-score of 79.03.
◦ Used SQuAD 1.1 dataset for the experimentation purpose.
◦ Built BiDAF and QANet model incorporated with BERT, which was successful in answering textual queries.
- Sep 2017– **Marathon Race Finish Time Predictor**, Dr. Angshul Majumdar, IIIT Delhi.
Nov 2017 ◦ Implemented a novel system to predict race finish time for marathon runners
◦ Based on previous marathon history of the runner, system will predict target finish time for upcoming marathon
- Jul 2017– **IIITD Facility and Management Service System**, Dr. Chetan Arora, IIIT Delhi.
Dec 2017 ◦ Implemented a FACEBOOK automated system for Facility and Management Service System
◦ Each complaint will be assigned to an employee automatically based on the availability
◦ Rating and feedback provided by the user will be stored in the system
- Jan 2018– **Alumnect: IIITD Alumni Portal**, Dr. Ponnurangam Kumaraguru, IIIT Delhi.
May 2018 ◦ Built an online community for alumnus and existing students
◦ Used different HCI components for the final portal with multiple iterations based on user feedback
◦ Used GOOGLE API to plot the student density around the world by markers

Skills

Languages PYTHON, C/C++, JAVA
Frameworks PyTorch, Sklearn, NumPy, Keras, Matplotlib
Utilities Anaconda, Git, Sublime Text, Jupyter Notebook

Achievements

- Qualified for ACM-ICPC '18 Amritapuri, Kanpur onsite round with All India Team Rank 44(Total teams-3500)
- Secured Rank 25(Total teams-168) in Kanpur site and Rank 37(Total teams-268) in Amritapuri site in ACM-ICPC '18
- Achieved 97.8 percentile in GATE '17 with gate score of 578
- Advanced to Round 2 of FACEBOOK HACKERCUP '14,'15 and GOOGLE CODEJAM '15
- Participated regularly on coding platforms like Codechef, Codeforces, SPOJ, Hackerrank, Hackerearth and Topcoder (arpanmukherjee Hackerrank, arpn in other Platforms)

Positions of Responsibility

- Jul 2017– **FooBar, Executive Member.**
- May 2019
- The group aims to foster competitive programming among students by taking various CodeClasses and participating in live contests
 - Helped to organize contest on monthly FooBar contests on dedicated portal
- Jul 2017– **Teaching Assistant.**
- May 2019
- Selected as a TA for Introduction to Programming, Algorithm Design and Analysis, Competitive Programming, Graduate Algorithms and Computer Vision courses at IIIT Delhi
 - Responsible for guiding students with tutorial problems for better understanding of the course material
- May 2018– **Procon - Esya, Event Head.**
- Aug 2018
- Organized contest on Codechef where more than 2000 participants participated from all over the world
 - Responsible for problem setting and testing of the Procon contest
- Jan 2016– **Technical Secretary.**
- Mar 2016
- Helped to organize Bits2Bytes '15, official technical fest of BIT Kolkata
 - Organized coding contest event of the technical fest, where 50+ on-site participants participated