Arijit Mukherjee

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EDUCATION

IIT BOMBAY

M.Tech in Computer Science

July 2019 | Mumbai, India Natural Language Processing CPI: 9.27

BPPIMT, WBUT

B.TECH IN COMPUTER SCIENCE

June 2016 | Kolkata, India DGPA: 8.03

COURSEWORK

GRADUATE

Algorithms and Complexity
Design of Computing Systems
Foundation of Machine Learning
Advanced Machine Learning
Digital Image Processing
Computer Vision
Organization of Web Information
Reinforcement Learning
End to End Innovation

UNDERGRADUATE

Data structures & Programming Theory of Computation Operating Systems Artificial Intelligence Database Management Systems Computer Networks

SKILLS

PROGRAMMING

Python • Javascript • Node.js • C • Java • C++ • CSS • PHP • Matlab • ŁTĘX• Android • MySQL • MongoDB

TOOLS & LIBRARIES

PyTorch • Tensorflow • Scikit-Learn • Pandas • NumPy • matplotlib • OpenCV

HOBBIES

Internet Gaming • Watching Movies • Cricket

LANGUAGES

Bengali • English • Hindi

EXPERIENCE

COGNIZANT PROGRAMMER ANALYST TRAINEE

Oct 2016 - May 2017 | Bangalore, IN

- Full stack developer wrote and reviewed Node.js and JavaScript code bases.
- Built proof of concept applications using IBM Watson APIs and open source technologies covering the AI dimensions of NLP, speech and vision.

RESEARCH

MASTER PROJECT QUESTION GENERATION & QUESTION ANSWERING Guided by Prof. Preethi Jyothi & Prof. Pushpak Bhattacharyya

- Used cross-lingual training methods to leverage already existing data in English to train automatic question generation system on Hindi and Chinese.
- Trained cross-lingual question generation system jointly in low resource primary and high resource secondary language which outperformed SOTA.

BACHELOR PROJECT HAND GESTURE RECOGNITION SYSTEM Guided by Prof. Suprabhat Maity

- Built an affordable device for human computer interaction using hand gestures using Raspberry Pi2 and standard webcam with infrared illuminaters.
- Detected and recognized hand gestures using SVM with HoG features.

PROJECTS

QNA BOT Conversational Question Answering Chat-bot

 Built a web application Flask which can deploy conversational chat-bots to answer customer queries. Fined-tuned BERT on PyTorch with CoQA data-set. Achieved F1 Score 76.7 on CoQA leader-board.

LABEL-IT LABELING AMAZON SATELLITE IMAGE CHIPS

 Built an attention based CNN RNN architecture with pre-trained VGG16 on PyTorch, achieved F2 score 90.25

CGAME MULTIPLAYER TICTACTOE GAME BUILT ON C++

• Developed and tested a multiplayer web application, implemented the web and web-socket server from scratch using C++ with UNIX Sockets.

CAP2IMAGE GENERATE IMAGE FROM CAPTIONS

• Trained conditional DCGAN, WGAN, GAN-CLS to generate 64x64 images from text captions from Caltech-UCSD Birds data-set

ACHIEVEMENT

2016 Top 20/1446 WalmartLabs Hack Fest
 2016 Top 24/406 HackerRank Machine Learning Codesprint
 2016 1st B.Tech Project of 2015-2016 Computer Science Dept.
 2017 99.5 percentile GATE 2017 (All India Level Graduate Entrance Exam)
 2018 1st TCTD Symposium Poster Presentation IIT Bombay