Sumit Agarwal

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EDUCATION

IIT KHARAGPUR

B.Tech in Computer Science & Engineering

Graduated May 2017 | Kharagpur, India Cum. GPA: 9.75/10.00

BHARATIYA VIDYA BHAVAN

HIGHER SECONDARY, CBSE Passed 2013 | Kolkata, India Marks Obtained: 97%

NOPANY VIDYALAYA

SECONDARY, WBBSE Passed 2011 Kolkata, India Marks Obtained: 92%

LINKS

LinkedIn://iamagarwalsumit Github://iamagarwalsumit Facebook://iamagarwalsumit Twitter://@meagarwalsumit

COURSEWORK

CORE

Algorithms Computer Networks+ Operating System+ DBMS+

Computer Organization and Architecture+ Compilers+

Software Engineering+ Theory of Computation+

NON CORE

(I) Machine Learning+ (I) Deep Learning+ Artificial Intelligence+ (I) Natural Language & Processing+ Information Retrieval+ Smartphone Computing+ Image Processing+ Foundations of Cryptography

+ - Excellent Grades, (I) - Interests

SKILLS

LANGUAGES KNOWN

C• C++ • Python • Java • HTML • CSS • JavaScript • PHP • MySQL • Assembly

FRAMEWORKS

TensorFlow • Angular JS • Electron • Solr • Spring • Diango • Matlab • Android

EXPERIENCE

SAMSUNG | SOFTWARE ENGINEER

Expected Jun'17 - Present | Bangalore

- Currently working as a part of Bixby(Voice Assistant of Samsung) to enable consisitent multi device experience across devices(TV, mobile, speaker).
- Worked for Bixby 2.0 which used random forests for classification and dynamically generated plans based on the utterance's context.
- In Bixby 1.0, Convolutional Neural Networks(CNN) were used for classication and attention mechanism coupled with Recurrent Neural Networks(RNN) was used for resolving the utterance's context.

SAMSUNG | SOFTWARE DEVELOPER INTERN

Expected May'16 - Jul'16 Bangalore

- Worked with the Samsung Pay team on the UPI interface.
- Worked on sms mining and extracting information from transaction messages using basic classification and NLP techniques.

NATIONAL DIGITAL LIBRARY | SOFTWARE ENGINNERING INTERN Expected May'15 – July'15 | IIT Kharagpur, MHRD | https://ndl.iitkgp.ac.in

- Worked on building a search engine for the national digital library using Apache Solr as the backbone
- Enabled multilingual support in the UI as well as the search(bystemmers) aimed to enable searching and retrieving in different Indian languages

PROJECTS & RESEARCH WORK

SOCIAL OPINION DYNAMICS | B.TECH PROJECT

Prof Nlioy Ganguly | CSE, IIT Kharagpur

Predicting future opinions of users and their peers in social networks by applying deep learning methods like recurrent neural networks. Paper titled "Learning Non Linear Opinion Dynamics in Social Networks" accepted in International Conference on Data Mining(ICDM'17).

COMMBOX | Term Project | Smartphone Computing

Prof Nlioy Ganguly | CSE, IIT Kharagpur

A real time commentory box which uses machine learning techniques and real time sensor data (accelerometer, gyroscope) from wearable devices to predict the type of cricket shot played. The project recieved the best demo paper award at COMSNETS'17.

SCIENTIFIC ARTICLE SUMMARIZATION | TERM PROJECT | NLP

Prof Pawan Goyal | CSE, IIT Kharagpur

Using techniques like LSTM, GRU to summarize scientific articles and compare the result with the abstract of the paper.

VEHICULAR ENVIRONMENT DETECTION | TERM PROJECT | ML

Prof Pabitra Mitra | CSE, IIT Kharagpur

Using Convolutional Neural Networks and a technique of Blind Colour Decomposition to predict the direction of travel, right, left, straight or blockage from road images.

ACADEMIC AND EXTRA CIRRICULAR

- 2017 Graduated with Department Rank of 3 and Institute Rank of 5
- 2017 2nd in Data Analytics, General Championships, IIT Kharagpur
- 2016 3rd in Hindi Elocution, General Championships, IIT Kharagpur
- 2013-15 Captain at National Service Scheme, IIT Kharagpur