

Subhankar Ghosh

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EDUCATION

- **University of Illinois at Urbana-Champaign**
Master of Science in Statistics: Analytics Concentration Aug 2017 – May 2019
- **National Institute of Technology, Rourkela, India**
Bachelor of Technology in Computer Science & Engineering GPA: (8.95/10.0)
Aug 2011 – May 2015

AREAS OF INTEREST

- Machine Learning, Deep Learning, Statistical Learning, Data Analytics

COMPUTER SKILLS

- C++, Python(SciPy, NumPy, NLTK, Matplotlib), R, SQL, Tensorflow, NoSQL, SAS

EXPERIENCE

- **University of Illinois at Urbana-Champaign** Urbana-Champaign, Illinois
Research Assistant Sep 2017 - present
 - **Stylometry in Research Papers:** Pursuing research in the field of stylometry in research papers to predict the authorship of papers
 - Working on NLP, deeplearning and feature selection techniques using python and tensorflow
- **Microsoft R&D India Pvt Ltd** Hyderabad, India
Software Engineer Jun 2015 - Jul 2017
 - **Rewards Predictor:** Built a system that predicted employee rewards by analyzing feedback text
 - Achieved overall accuracy of 87%, being used in Rewards department
 - Used: Python, DeepLearning, Tensorflow, Keras, C#, NoSQL
 - **Azure Virtual Architect:** Recommended optimal cloud technology for a given software system requirement
 - Recommendations were based on cost, performance and efficiency of cloud technologies
 - Crawled Azure Docs to build dataset of cloud technologies and used cosine similarity to map input with the technologies
 - Used: NLTK in Python, NoSQL, javascript, AzureML
 - **Voucher Validation and Redemption Project:** Worked on service layer framework in VVR of Microsoft
 - Used: C#, SQL, javascript
- **Microsoft R&D India Pvt Ltd** Hyderabad, India
Software Engineer Intern May 2014 - Jul 2014
 - **NEO:** Built New Employee Onboarding system that helped new employees of any organization to onboard smoothly

PROJECTS

- **Curb Domestic Violence:** Solved problem of detecting domestic violence automatically in real time
- Used deeplearning to analyze text and decibel level of voice to predicted domestic violence
- Research is being done by Innovation hub of Microsoft India to increase the achieved precision score of 0.47
- **Lets Envisage:** Built a system to automatically assign programming tasks to appropriate person based on skill level
- Predicted time required to complete a programming task based on complexity of the task
- Collected employee and task data from VSTS (a distributed version control system of Microsoft)
- Achieved an RMSE of 4.5hours. *Used:* Regression Analysis, C#, AzureML, R
- **Characterization of mammograms for detection of breast cancer:** Bachelor level research project to detect breast cancer from mammograms
- Used ensembled classification techniques and achieved a precision score of 0.74

PRESENTATIONS, PUBLICATION AND PATENT

- **Presenter:** S. Ghosh, S. Debnath. (Jun 2016). *Curb Domestic Violence*. Paper presented at Microsoft Machine Learning, Analytics & Data Science Conference, Redmond, 2016
- **Patent:** S. Ghosh, S. Debnath. (Nov 2016). *EFFICIENT TASK PLANNING USING PAST PERFORMANCE* (Application number: 15/364081). Status: Under patent examination by USPTO.

ACHIEVEMENTS AND SOCIAL SERVICE

- **IT Star Award, Microsoft R&D India:** 2016
- **Semifinalist at ACM International Collegiate Programming Contest Asia Region:** 2014
- **Volunteering:** Teacher at SOS Children's Village an NGO for underprivileged orphan children