ANKIT SWARNKAR

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EDUCATION

Indiana University, Bloomington, IN — **Aug 2016 to May 2018**
Master of Science in Data Science — GPA: 3.77/4.0

University of Pune, Maharashtra, India — **Aug 2010 to May 2014**
Bachelor of Engineering in Computer Science — GPA: 3.65/4.0

EXPERIENCE

Micron Technologies, Boise, US — **May 2017 to Dec 2017**
Data Science Intern

- Classified images of surface warpage at various temperatures to help quality engineers with better profiling of thermal characteristics using an ensemble of machine learning models on hand generated features using computer vision algorithms.
- Leveraged causal inference and inferential machine learning to derive relation between module internal test parameters and customer test failures to help product engineers identify root cause and hidden insight for enhancement of product yield.
- Reinforced failure analysis by developing a semi-supervised transductive model for leveraging unlabeled and labeled failure data to predict failure score for products which helped quality team in better product sampling to reduce cost, effort and time.
- Developed a shiny application for sampling and statistical methodologies, and helped in structuring a new quality control methodology for forecasting accuracy of internal scoring and metrics, to gain a better insight of the internal performance.

Shoptaki, New York, US — **Jan 2017 to May 2017**
Data Science and AI Intern

- Designed and formulated an algorithm for distributed neural network based on weight sharing for the new B2B platform.
- Led the platform development team and implemented blockchain module for the distributed deep intelligence framework.

Bank of New York Mellon Technology, Pune, India — **Jul 2014 to Jul 2016**
System Engineer (DevOps Web Services)

- Developed a security enriched and robust framework to automate IBM WebSphere administrative tasks using Python and shell scripts to reduce fintech web application projects turnaround time by 40%.
- Optimized and automated creation of cloud-based load balancer and developed a health monitoring pipelines for web servers using system and web logs to enhance the reliability and productivity performance by 25%.

Persistent System, Pune, India — **Jun 2013 to May 2014**
Project Intern

- Open sourced Amazon Elastic Map Reduce service, and created a new SaaS service on top of Eucalyptus private cloud to spin-up, auto-configure, and complete MapReduce analysis job, on up to five nodes Hadoop cluster in less than 18.35 sec.

SELECTED EXTRA CURRICULAR DATA SCIENCE ACTIVITIES

Knowledge Base Predictive Analytics — **Nov 2016 to May 2017**

- Implemented a predictive model for *MindShift Solution Inc* based on 2 million call records and 40 thousand knowledge base articles to enhance call center's ability of resolving a customer's complaint in first interaction and optimal amount of time.

Medical Expenditure Panel Survey — **Sep 2016 to Nov 2017**

- Delivered an inferential statistics framework, and data transformation pipeline for scrapping and transforming government healthcare and insurance open data to researchers of *Public Affair department of SPEA*, Indiana University.

Deep Learning Course, Coursera — **Aug 2017 to Jan 2018**

- Completed all five certifications and fabricated various applications of deep learning on image and textual data like language generation, face and object detection, and neural transfer on various GPU frameworks. (Numpy, TensorFlow and Keras)

SELECTED ACADEMIC PROJECTS

Extended deep study of web evolution — **Jan 2018 to Mar 2018**

- Developed a texture hybrid metrics and a classifier using bag of visual features from sift, hog and neural network weights to help in identifying the evolution of low visual features of web across different genre and predicting a website genre category.

Causal Inference for social science research on Healthcare policy — **Apr 2017 to May 2017**

- Analyzed 2015 open survey data to statistically validate research hypothesis of "Medicaid-eligible states are more likely to get existing chronic diseases diagnosed compared to non-Medicaid-eligible states" using advanced causal inference tools.

TECHNICAL SKILLS

Python, R, C++, Java, C#.Net, Shell, pySpark, TensorFlow, Keras, Hadoop, Excel, SQL, Tableau, sci2, D3.js, chef, SAS JMP