ANIESH CHAWLA

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A leader and an excellent team player with more than 5+ years of experience in computer science and data analysis. Have a broad experience in software development life cycle and spearheading engineering processes in startup leading to business growth and development

EDUCATION

PURDUE UNIVERSITY, WEST LAFAYETTE, INDIANA

Master of Science in Computer Engineering	4.0/4.0	2017 - 2019

INDIAN INSTITUTE OF TECHNOLOGY (IIT), DELHI

Masters of Technology in Information and Comm. Tech	8.5/10	2006 - 2011

INDIAN INSTITUTE OF TECHNOLOGY (IIT), DELHI

Bachelors of Technology in Electrical Engineering	7.9/10	2006 - 2011

RELATED COURSEWORK

Data Mining, Linear Algebra, Random Variables, Graph Theory, Data Structures, Algorithms, Convex Optimization, OS

ACADEMIC PROJECTS

Course Project   West Lafayette, IN
Model Compression as Constrained Optimization, Purdue (Oct 2018 – Present)   **[Jupyter, PyTorch, Python]**
- Reduced dimension of each layer by learning a lossy mapping via transforming to a constrained optimization
- Planned proposal to reduce number of layers of a model by extending the constrained optimization

Master's Project   West Lafayette, IN
Reliability of Network Cameras, Purdue (Jan 2018 – Present)   **[scikit-learn, Jupyter, PyTorch, Python]**
- Architected the solution for identifying parameters for finding useful cameras during emergency responses
- Built Deep Neural Networks models and leveraged Computer Vision algorithms to identify such useful cameras

EXPERIENCE

TESLA MOTORS, CA   Fremont, CA
Summer Internship (May 2018–Aug 2018)   **[Python, Jupyter, Kafka, Flask]**
- Architected and implemented software to automate Tesla car firmware validation to emulate the production line.
- Automated report generation through SQL and Python for firmware testing on production line for Model S/X
- Solutions led to reduction of 100+ man hours per week which led to savings of ~$20K/month

SANCTUM NETWORKS, INDIA   Bangalore, India
Product Engineer (March 2015 – April 2017)   **[C/C++, Python, Storm, Kafka, Zookeeper, Mongo]**
- Architected software solution for collecting, analyzing & interpreting network data for Liberty Global
- 100 times scaled up performance by introducing Apache Storm and Kafka architecture in software codebase
- Led a team of 5 people to enable SDN based Wi-Fi/IoT orchestration at SOHO by leveraging Netconf
- Integrated the solution with various hardware vendors for enabling DOCSIS orchestration across various hardware to showcase vendor agnostic solution

AMERICAN EXPRESS   Gurgaon, India
Business Analyst (March 2012 – March 2014)   **[Hadoop, SQL, SAS]**
- Spearheaded Big Data initiative in Fraud Strategy by integrating new capabilities like Sequence Mining, Random Forest, K- nearest neighbor specifically for proactive detection of fraud at POS. Awarded Analyst of the Quarter
- Managed credit card fraud for global market by using Hadoop, SQL and SAS technologies

TECHNICAL SKILLS

Proficient in C/C++, Python, SQL, Hadoop, scikit-learn, PyTorch, MySQL, MongoDB, Apache Storm, Kafka, Elastic Search

PUBLICATIONS

- C. Surakitbanharn, C. Yau, G. Wang, A. Chawla, Y. Pan, Z. Sun, S. Yellin, D. Ebert, Y. Lu, G. Thiruvathukal "Cross-referencing social media and public surveillance camera data for disaster response", 2018 IEEE International Conference on Technologies for Homeland Security (HST), Waltham, MA, 2018
- Chawla, A; Yadav, V.; Dev Sharma, V.; Bajaj, J.; Nanda, E.; Ribeiro, V.; Saran, H., "RODEO: Robust and rapidly deployable TDM mesh with QoS differentiation," Communication Systems and Networks (COMSNETS), 2012 Fourth International Conference, vol., no., pp.1,6, 3-7 Jan. 2012