DEVANGI CHINCHANKAR

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EDUCATION

Master of Science, Computer Science **Aug 2020 – May 2022**
San Jose State University, *College of Science* **CGPA: 4.0/4.0**
Coursework: Advanced Programming Language Principles, Artificial Intelligence, Computer Vision, Cryptography and Computer Security, Design and Analysis of Algorithms, Graph Theory, Machine Learning, Parallel Computing

Bachelor of Engineering, Computer Engineering **Aug 2014 – May 2018**
University of Pune, *Cummins College of Engineering for Women* **CGPA: 3.86/4.00**
Coursework: Cloud Computing, Data Mining, Data Structures, Database Management Systems, Design and Analysis of Algorithms, High-Performance Computing, Natural Language Processing, Object-Oriented Programming, Operating Systems

EXPERIENCE

Technical Analyst | Citigroup, India **2018 - 2019**

- Conceptualized and delivered a real-time application monitoring platform, within a strict deadline of 3 months, that sent out alerts on anomalies, failures, and daily performance analysis reports, tailored for both developers and traders | ELK
- Worked on a legacy C++ application for the Options Trading platform to handle the high-frequency low-latency communication channel between Citibank and 8 options exchanges in the North America region
- Spearheaded the design and development of an Order Lifecycle Tracking project, for the Equites vertical, using an Agile Process Model with a team of 10 other graduate hires | Python, Kafka, Spark, Hadoop, HBase

Software Development (SDE) Intern | Cummins, India **2017**

- Remodeled a Generator-Set parameter handling interface, tied to a relational database of over 50 GB, by extending existing functionality and by revamping the user interface | MySQL, MS Access, Visual Basic
- Prepared data for analysis by performing cleaning, integration, and normalization | Weka, R
- Employed multiple regression analysis in R for estimating energy costs and using it for devising energy-saving solutions

TECHNICAL SKILLS

Programming: Python, Java, C/C++, R, MATLAB
Databases: MySQL, MongoDB, Elasticsearch, HBase
Platforms: Linux, Windows
Web/Mobile Development: CSS, Bootstrap, Javascript, NodeJS, ExpressJS
Tools: Atom, IntelliJ IDEA, Jupyter Notebook, Kibana, Git
Frameworks/Libraries: Tensorflow, PyTorch, OpenCV, NLTK

PROJECTS

Malware Classification *(Machine Learning | Python, Tensorflow, Scikitlearn)* **Nov 2020 – Dec 2020**

- Explored SVMs, HMMs, CNNs, KNNs and LSTMs for classifying malware executables into 5 different families from their entropy sequence with LSTMs being the winner, giving an accuracy of 98.8%

Rating Prediction from Reviews *(Sentiment Analysis |Python, Tensorflow, Scikitlearn)* **Oct 2020 – Nov 2020**

- Performed a grid search using SVMs, RFs and LSTMs as ML models, and BoW and Word2Vec as word embedding methods to predict ratings on a scale of 1 to 5 from TripAdvisor hotel reviews

Order Matching System *(Full-stack development | SQL, Java, Bootstrap, Javascript)* **Jul 2018 – Aug 2018**

- Developed a real-time Stock Order Matching system for determining successful trades which effectively simulates the process of that on an actual exchange by incorporating complex matching logic

Food Image Recognition *(Computer Vision | Python, OpenCV, Tensorflow, Android)* **Jul 2017 – May 2018**

- Selected amongst 180 students for the faculty research project and identified DCNNs as a means of getting maximum accuracy in recognizing food items from images after extensive scrutiny of various traditional and ML methods

SEMINARS AND PUBLICATIONS

"*Survey of Different Approaches used for Food Recognition,*" Lecture Notes in Networks and Systems, vol 40. Springer, Singapore (Proceedings of Third International Conference on ICTCS 2017) **2018**

"*Chatbots using Generative Methods - LSTMs,*" Cummins College of Engineering for Women, Pune **2017**

EXTRACURRICULAR

- Animal Rescue Volunteer at ResQ, an Animal Welfare Organization **2015 – Present**
- Tuition sponsor of one underprivileged secondary school student every year **2016 – Present**