Surbhi Grover
2267, Howard Ave, San Carlos, CA 94070
(331) 321-3776 | surbhigrover1193@gmail.com | http://www.linkedin.com/in/surbhigrover1193

EDUCATION

Arizona State University August 2017 – Dec 2018
Masters in Computer Science ***(GPA = 4.0)***
Relevant courses: Intro to Artificial Intelligence(A+), Distributed and Parallel Databases Systems(A), Foundations of Algorithms(A), Software Security(A), Data Mining(A-), Natural Language Processing(A)

Indira Gandhi Delhi Technical University for Women August 2011 – August 2015
Bachelor of Technology in Computer Science

WORK EXPERIENCE

- ***Software Engineering Intern*, PayPal** May 2018 – August 2018
  - Developed a classifier to attribute user's complaints to products using Sentence Classification techniques like CNN and LSTM. Also built the infrastructure to serve the classification results in real time on user's complaints.
  - API functionality in Node js to detect duplicate incidents based on the description provided.
- ***Software Developer*, SAP Labs** August 2015 – July 2017
  Worked on Solution Modeling Environment (SME), which is a product based on Eclipse Rich Client Platform (RCP). It is used for creating models for configurable products using core java technologies. My primary responsibilities were:
  - Building Domain Specific Language using xText, which was used for modeling the configurable products.
  - Finding bottlenecks through JVM profiling and making multiple compiler optimizations to augment the performance of validation of domain specific language.
  - Writing Junits and running automation scripts for testing the product through Jenkins.

ACADEMIC PROJECTS

- ***Classify Hand Gestures*** (*Guide Ayan Banarjee, ASU*) Jan 2018 – May 2018
  The aim of this project was to classify hand gestures. The data was collected for different hand gestures which included readings for accelerometer, gyroscope, orientation and EMG. The task was to first extract meaningful features and reduce dimensionality of the data using PCA(Principal Component Analysis). After feature extraction, Neural Network, SVM, and Decision Trees were used to perform multi class classification.
- ***Hot Cell and Hot Zone Analysis on Geo-Spatial Big Data using Apache Spark*** (*Guide Dr. Mohamed Sarwat, ASU*) Aug 2017 – Dec 2017
  The aim of this project was to determine clustering patterns of spatially referenced data using the Getis-Ord Statistics. It involved creating Hadoop cluster and storing the data on Hadoop File System. The data was partitioned and distributed over the cluster to augment faster query processing. Apache Spark was used to identify the patterns of cluster for its ability to perform in-memory query processing.
- ***Load Balancing algorithm based on prediction model in Cloud*** (*Guide Vivekanand Jha, Assistant professor, IGDTUW*) Jan 2015 – May 2015
  Designed and implemented "Load Balancing algorithm based on prediction model in Cloud computing" on CloudSim for my senior year project. The core idea was to model the amount of resources required for an application. The primary component was to model the expected load as a function of time, reducing the problem to a typical time series forecasting using moving average with exponential smoothing as our predictive function.

TECHNICAL PAPERS

- Surbhi Grover, Aastha Luthra. Load Balancing algorithm based on prediction model in Cloud: The algorithm applies for virtual machines to dynamically add or delete back-end server based on actual network load condition through prediction based on historical traces.

SKILLS

- **Programming Languages:** Java, Python, C, SQL, Node js.
- **Frameworks worked on:** Eclipse, Spring, Jenkins, Git, Junit

AWARDS, HONORS AND EXTRACURICULLAR

- Presented a research paper on 'Load Balancing algorithm based on prediction model in Cloud computing' in Institution of Communication Engineers and Information Technologists conference on Advances in Mobile Communication, Networking, Computing.
- Appointed as **Technical Head** and **Website Administrator** of **IEEE** (Institute of Electrical and Electronics Engineers) Student Brach at Indira Gandhi Delhi Technical University for Women.