Channabasava Gola
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EDUCATION

Arizona State University, AZ Aug'17 - May'19 (expected)
Master's in computer science **GPA: 3.48**
Coursework: Machine Learning, Data Visualization, Distributed Database Systems, Foundations of Statistical Learning, Knowledge Representation, Multimedia and Web Databases, Semantic Web Mining, Principles of Programming Language.

Visvesvaraya Technological University, Karnataka, India Aug'10 - Jun'14
Bachelor of Engineering in Computer Science **GPA: 3.40**
Relevant Coursework: Data structures and algorithms, Operating system, Computer networks, OOPS.

TECHNICAL SKILLS

Programming: Python, R, SQL, JavaScript, C++, shell scripting.
Technologies: OOPS, ETL, Data Pipeline (streaming), Logstash, Spark, Hadoop, Web Scraping, Data Visualization (D3), Text analytics, AWS, Latent Dirichlet Allocation, Docker, Pandas, Sklearn, NLTK, Selenium, Bootstrap.js.
Database: MySQL, Elasticsearch, HDFS
Software: Tableau, git, vim, Jupyter notebook, Gephi, ARCGIS.

WORK EXPERIENCE

ASU Decision Theater Network, Student Data Scientist (GRA) Feb'18 - Present
- Data Scraping (Facebook, twitter, Yelp), processing, analysis and Viz. **[Selenium, RestAPI, Logstash, D3, Tableau, Kibana]**
- Setting up Data Storage, NoSQL JSON schema for varied use cases and writing queries. **[Elasticsearch, Postgres]**
- Building docker images, setting up nginx.
- Planned system design and data pipeline for a project along with Tech Lead. Worked on datasets of size 5M and streaming data.
- Currently developing Parallel processing modules that run pre-trained machine learning algorithms in Spark clusters. Training LDA in parallel. **[Spark]**
- Currently developing Geo-Data analysis custom package for pre-processing. **[ArcPy, GeoPandas]**
- Work on cross functional teams, and meeting delivery deadlines.

BigBasket.com, Software Engineer - II Apr'17 - Jul'17
- Developed python modules to collect data periodically for analysis by investors. **[ORM, Django]**
- Troubleshoot issues on Payment and wholesale catalog page. **[JavaScript, SQL, Django]**

Aricent, Software Engineer **(**client **-** Cisco**)** Oct'14 - Mar'17
Project: Automated Debugger Natural Language Processing Nov'16 - Jan'17
- Developed **tri-gram and bi-gram Probabilistic Language Models** to classify commands from natural language. Achieved a **precision** of 95 and **recall** of 91.
- Developed a web scrapper to collect commands from the web to train the model. Did text processing. **[NLTK]**

Project: Snapshot Tool [ASR 9K] Aug'16 - Oct'16
- Developed a script that SSH connects to given IP of a switch. Runs commands to note down configurations made. **[regEx, Paramiko]**
- Considering configurations, script analyzed the kind and amount of traffic(packets) and mail it to developer/tester and manager if the device is underused. Tool would take in mail IDs, IP address and threshold and perform the task for all IP addresses. **[regEx]**

ACADEMIC PROJECTS

Text mining, Multimedia Web DataBases Aug'17 - Dec'17
- Implemented TF, TF-IDF with different objects and features as tags to figure out how discriminating tags are in describing objects.
- Developed **movie recommendation** module using Latent Factor Analysis. Have used MovieLens dataset. Used dimensionality reduction to calculate implicit ratings and recommend movies on these ratings. **[sklearn]**

Web Scrapping and Data Mining Aug'17 - Dec'17
- Mined and Visualized scrapped property dataset from real estate sites for easier decision by tenants and owners. **[BeautifulSoup]**

Analyzing and Visualizing 11 years Australian Open dataset Jan'18 - Feb'18
- Made an informative yet beautiful poster and an interactive DV using d3.js. **[Tableau, d3js]**

OTHER PROJECTS

Rainfall prediction (Research paper) Nov'16 - Feb'17
- Developed **Polynomial regression model** to predict rainfall and cross-validated it using **k-fold**. Used dataset from Indiaportal.org for Bangalore. Selected features using **data visualization** techniques and based on variance. Trained the model to predict rainfall based on cloud coverage, humidity, and precipitation. **[Scikit, matplotlib]**
- Implemented **linear and logistic regression, K-means** on Coursera. **[Octave]**

OTHERS AND HOBBIES

- Reading books. Working out. Running.