Channabasava Gola
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EDUCATION

Arizona State University, AZ Aug 2017 - Present
Master's in computer science **GPA: 3.78**
Coursework: Machine Learning, Data Visualization, 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

Languages/OS: Python, R, SQL, JavaScript, C++, Mac, Linux (Ubuntu, Fedora, openSuse), Windows.
Technologies/packages: Web Scraping, Data Visualization, Natural Language Processing (Text analytics), BOW, Data cleaning/mining (feature preprocessing/selection/generation), Django, AWS, JSON, HTML, Pandas, numpy, matplotlib, Sklearn, NLTK, Tensorly.
Models/concepts: linear/polynomial classification and regression, Tree-based (Decision tree, Random forest, GBDT), Latent Dirichlet Allocation, Statistical models, graph-based models, dimensionality reduction (generative, discriminative).
Software: Tableau, Docker, git, vim, Jupyter notebook, IDEs, SSH, VPN.

WORK EXPERIENCE

BigBasket.com, Software Engineer - II Apr'17- Jul'17
- Enhanced feature that generated daily reports and enabled business analysts in making crucial decisions. **[Django]**
- Troubleshot a wholesaler discount issue in 3 days and led Big Basket **not** lose 2 active wholesale customers.
- Fixed issues on the payment page that is used by **50K** customers making the transaction a day across India. **[JS, 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]**

Project: IOS-XR (platform independent) Mar'16 – Jun'16
- Integrated SU test script across platforms using PyATS framework. (NCS1K – NCS5K).
- Troubleshoot issues in version controlling tools and built Software Maintenance Updates(SMU) for IOS-XR. **[Perl]**

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
- Developed web scrappers to collect property dataset from real estate websites. Mined and Visualized this collected dataset for easier decision by tenants and owners. **[BeautifulSoup]**

Analyzing and Visualizing 11 years Australian Open dataset (in progress) Jan'18 – Present
- Made an informative yet beautiful poster with static visualization. Now developing interactive DV using d3.js. **[Tableau]**

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]**

Analyzing my Gmail and browsing history (in progress) Jan'18 - present
- Visualized my browsing history and came up with interesting understandings.
- Requested and downloaded my Gmail dataset. Processing subject, time, sent and received sections of Gmail.

Coursera Machine Learning Course Aug'16 – Nov'16
- Implemented **linear and logistic regression**. Implemented K-means clustering. **[Octave]**

OTHERS AND HOBBIES

- Writing articles on Data Science and Machine Learning on my personal website. Reading books. Working out. Running.