Channabasava Gola

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EDUCATION

Arizona State University, AZ August 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 August 2010- June 2014
Bachelor of Engineering in Computer Science **GPA: 3.40**

WORK EXPERIENCE

BigBasket.com, Software Engineer - II April 2017- July 2017

- Enhanced feature to add more information to daily report. **[Python, Django]**
- Fixed issues in Vouchers, Delivery Charges, wholesaler's discount module and broken UI. **[JS]**

Aricent, Software Engineer October 2014 - March 2017

- Developed tools for trivial and repetitive tasks. **[Perl]**
- Fixed issues in the pre-existing tools for version controlling and building SMU for IOS-XR. **[Python]**
- Integrated SU test script across platforms using PyATS framework. (NCS1K – NCS5K). **[Python]**
- Developed snapshot tool to capture configurations and traffic on switches at any given time. **[Python]**
- Bug fixing in C application for physical layer device for the client Cisco. **[C]**

ACADEMIC PROJECTS

- 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. **[Python, sklearn]**
- Developed **web scrappers** to collect commands from the web. And also, to collect property dataset from real estate websites. **[Python, beautifulSoup]**
- Developed attendance monitoring system on Wipro ULK toolkit. **[C]**
- Developed **online portal** for vegetable pricing. **[Java]**
- Implemented **Lexical Analyzer**, a **compiler** for a given grammar. **[C++]**

DATA SCIENCE EXPERIENCE

- Developed **Polynomial Logistic 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. **[Python, Scikit, matplotlib]**
- Developed **tri-gram and bi-gram Probabilistic Language Models** to classify commands from natural language. Achieved a **precision** of 95 and **recall** of 91. **[Python, NLTK]**
- Solved Titanic and housing price prediction problem on Kaggle.
- Implemented **linear and logistic regression**. Implemented K-means clustering. **[Octave]**

TECHNICAL SKILLS

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

OTHERS AND HOBBIES

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