Parijat Bhatt

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Portfolio website: https://bhparijat.github.io/portfolio

EDUCATION:

- **Oregon State University,** Corvallis OR — 2018 - 2020
  Master of Science in Computer Science — GPA: 3.7
  Courses: Machine Learning, Deep learning, Statistics, Artificial Intelligence, Reinforcement learning, Computer Architecture, Operating Systems, Database Management Systems, Hypothesis Testing, Programming Languages.
  Graduate Research: Using Monte Carlo Tree Search and Graph Neural Network for the card game Klondike Solitaire under Prof. Prasad Tadepalli.
- **Indian Institute of Technology,** Dhn India — 2013-2017
  Bachelor of Technology in Engineering — GPA: 3.6

EXPERIENCE:

Software engineering(data science) intern | TDS telecom | WFH (August 2020 – Nov 2020)

- Created **data pipelines** to query multiple open sourced database containing **Street View images.**
- Ran projects on **Amazon Mechanical Turk** to get labels for the images.
- Created a full-stack ML application for location classification using **Dash, Flask, Couchbase, AWS.**
- Experimenting with **machine learning models** to finally deploy it as a **Flask service.**

Data Analysis Intern | **Hemex Health Inc. | Portland, OR** (June 2019 - September 2019)

- Implemented data pipeline using **scikit-learn** to create **ensemble model** that had an accuracy of **85%**
- **Engineered new features** to analyze signal data and thus help in classification.
- Experimented with machine learning models such as **AdaBoost**, **Decision Trees**, **Kernel-SVM and Logistic Regression** for **classification task**.
- Handled **class imbalance**
- Created **Python scripts** for tasks automation.

Full Stack Software Engineer | **CGI, India** (August 2017 – July 2018)

- Developed **front-end** for a client assistance web-app to be used by 5000+ employees using **angular 2**
- Implemented **chat messaging** for web app using **Redis**, **MongoDB** and **Socket.js** for client and server.
- Developed back-end services for the same using **ExpressJS.**
- Created test cases using **jasmine, mocha and chai.**

PERSONAL PROJECTS:

Recommendation System:

Created a recommendation system for 10 million movies by implementing both model based and memory based collaborative filtering. **Tools:** PySpark, Scikit-learn, Cloud Dataproc Cluster Code Link

Yelp Reviews Sentiment Analysis:

Used SparkML to build a sentiment classifier using TF-IDF and Logistic Regression. Implemented a word-embedding model using PyTorch to achieve a test accuracy of 93%. **Tools:** Apache Spark, PyTorch Code Link

Topic Modelling:

Used Latent Dirichlet Allocation to cluster 1 million news-headlines from ABC news into 6 topics. Evaluated model using maximum likelihood estimation. **Tools:** NLTK, Gensim, Seaborn, Scikit-learn, Pandas Code link

SKILLS:

Languages: Python, C, R, JavaScript **Web Technologies:** NodeJS, Angular **Databases:** MySQL, MongoDB
Libraries/Framework: Pandas, PyTorch, NumPy, SciPy, Scikit-learn **Tools/Platform:** Git, Linux, JSON, Google Cloud Platform, Apache Spark, MS Excel, Tableau, GGPLOT, Cloud BigQuery, Cloud BigTable, Cloud PubSub.