Prudhvi Vajja

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EDUCATION

INDIANA UNIVERSITY
MS in Data Science
Expected May 2021 | B-Town, IN
Cum. GPA: 3.8/4.0

JNTUK
B.Tech in Electronics & Comm
May 2018 | Kakinada, India
Cum. GPA: 3.5 / 4.0

INTERESTS

Sketching
Outdoor Games
Blogging
Reading Books

COURSEWORK

GRADUATE
Applied Machine Learning
Advanced Database Concepts
Statistics & Algorithms
Computer Vision
Natural Language Processing
Deep Learning
Engineering Cloud Computing

UNDERGRADUATE
Signals & Systems
Digital Image Processing
Artificial Neural Networks
Functional Programming
Matlab

SKILLS

PROGRAMMING
Languages:
Python • R • Matlab • SQL
Cloud & DataBase:
AWS • PostgreSQL • Hadoop
MapReduce • Spark • Git
Software Tools:
Tensorflow • PyTorch • Sklearn
Keras • OpenCV • Tableau
ML & Stats:
Regression & Classification • ANOVA
Random Forests • Deep Learning
Clustering • A/B Test • KDE

EXPERIENCE

TATA CONSULTANCY SERVICES | Data Analyst | Full Time
June 2018 – June 2019 | New Delhi, India

- Developed an algorithm using claims data to minimize the risk of inventory and saving **150+** hours of man power.
- Created and optimized SQL queries using relational algebra methods and reduced the run-time by **40%**. Awarded pat on the back.
- Automated the process of data cleaning using Python and Shell scripting.

IIT BOMBAY | Data Science Workshop + Intern
May 2017 – Aug 2017 | Mumbai, India

- Familiarized with one or more machine learning and statistical modeling tools such as R, Matplotlib, scikit-learn, Tensorflow.
- Performed advance **EDA** to determine the climate patterns that effect the crops and built end-to-end regression model on top of it.

MESH LABS | Contributor + Testing
Nov 2019 – Present | Bloomington, IN

- Contributed with research associates in developing open source visualization jupyter notebook apps for **NanoHub.org**.
- Created and deployed working apps for visualizing Nano Microbe alignment with live data using 3D models. **NanoparticleShape**.

PROJECTS

PLANT PATHOLOGY | Kaggle | Resnet152 | GitHub Link
Implemented a Transfer Learning model with Resent152 using **TPU** and obtained an Accuracy - **95.4%**

REAL OR NOT DISASTER TWEETS | Kaggle | Bert | GitHub Link
Created meta features using existing data and used BERT and Glove techniques to improve accuracy from **80%** to **95%**

POS - TAGGING | Python | HMM/Viterbi | MCMC | GitHub Link
Implemented naive bayes, HMM and MCMC / **Gibbs sampling** from scratch to predict parts of speech for each word and attained **95% accuracy.**

IMAGE ORIENTATION CLASSIFICATION | GitHub Link
Implemented AdaBoost Technique from scratch to identify orientation of 40,000 flickr images using NN, DT with accuracy > **90%**.

DOCUMENT CLASSIFICATION | Python | Pandas | Numpy
Implemented LDA and **collapsed Gibbs sampler** for reducing feature space from Bag of words**(200X405)** to Topic **(200X20)**.

ROAD TRIP USING A* ALGORITHM | GitHub Link
Implemented **A-star** using consistent heuristic functions to generate optimal paths for multiple constraints.