

Prudhvi Vajja

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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

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

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

INTERESTS

Sketching

Outdoor Games

Blogging

Reading Books

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.

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**.

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.

PROJECTS

PLANT PATHOLOGY | KAGGLE | RESNET152 | GITHUB LINK

Implemented a Transfer Learning model with Resnet152 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.