PRUTHVI TEJA ANUMANDLA

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[https://www.linkedin.com/in/pruthvi-teja-anumandla](https://www.linkedin.com/in/pruthvi-teja-anumandla/)/ **|** <https://github.com/aptr288> **|** <https://www.kaggle.com/aptr288>

Actively seeking a full-time opportunity in machine learning and data science domains. I possess **2.5+ years** of experience using machine learning algorithms, data processing and predictive data modeling to deliver insights and action-oriented solutions for challenging business problems. AWS Certified Cloud Practitioner.

**Education**

**Master of Science in Computer Science** 01/2017 – 05/2019

University of North Texas, Denton, Tx (ABET accredited) **GPA – 3.837**

* Minor: **Intelligent Systems**
* Courses: Machine Learning, Pattern Recognition, Information Retrieval and Web Search, Big Data Analytics

**Bachelor of Technology in Electronics and Communication Engineering** 05/2011 – 05/2015

SRM University, India (ABET accredited) **GPA – 3.61**

**Skills**

* **Programming languages** – Python, Java, R, SQL, MATLAB, CouchDB (NoSQL)
* **Data Science Tools** – Tableau, SAS, Microsoft Excel, OpenCV, NLP, CUDA, MS Suite
* **Machine Learning Libraries** – Sci-Kit Learn, NumPy, Pandas, Matplotlib, Keras, TensorFlow, PyTorch, NLTK
* **Big Data Tools** – Spark, Scala, Cloudera, Hadoop, Kafka, Databricks
* **Miscellaneous**  – HTML, PHP, XML, Linux, behave

**Publication**

Shanti R Thiyagaraja, Ram Dantu, Pradhumna L Shrestha, Anurag Chitnis, Mark A Thompson, **Pruthvi T Anumandla**, Tom Sarma, Siva Dantu “**A Novel Heart-Mobile Interface for Detection and Classification of Heart sounds**” Biomedical Signal Processing and Control, Elsevier Publications, pages 313-324, August 2018.

**Experience**

**Big Data Engineer, CapitalOne, Plano, Tx**  08/2019 – Present

* Implementing refinance campaign process to scrutinize huge database to identify and reach out to eligible customers utilizing PySpark, AWS and Snowflake.
* Extracting data from disparate sources, cleaning and processing them according to business logics and loading filtered data as input for further processes.
* Performing behavioral testing to ensure the code quality and functioning is as intended using behave framework.

**Artificial Intelligence Software Engineer Intern, Vision13, Minnesota (Worked Remotely)** 01/2019 – 07/2019

* Automated crypto currency trading using reinforcement learning to train the agent **make profits** by selling stocks while price trend is at peaks and buying when it is low using PyTorch and real time ccxt API’s.
* Integrated sentiment analysis of coins by scraping news articles to make informed decisions while trading.
* Designed user portfolio which provides comprehensive view of customer account details using Tkinter for GUI.

**Graduate Research Assistant,** **University of North Texas, Denton, Tx** 06/2017 – 12/2018

*Heart Sound Classification using machine learning:*

* Worked on application which using stethoscope setup will record, analyze and classify heart sounds.
* App correctly detected **92.68%** of abnormal heart conditions in clinical trials at UT Southwestern Hospital.
* Applied preprocessing techniques in MATLAB to remove noise artifacts from the audio data using various filters.
* Implemented deep neural networks on heartbeat audio files using Keras over TensorFlow.
* Employed different algorithms like SVM, KNN and Decision trees to classify heart sounds. Performed oversampling and grid search techniques to improve the performance of the model with limited data.

**Systems Engineer, Infosys, Hyderabad, India** 08/2015 – 01/2017

* Trained in modules such as Software Engineering, Testing, Database Management and programming languages like Python, C, Java and SQL. Completed training as **High Performing Fellow**.
* Operated on migration project of employee portal from Java to Bizagi (Business Process Management framework).
* Designed and developed a complex process (External Business Trip Request). Which includes Data modeling, Business logic implementation, creating Forms and configuring RESTful Web Services.
* Managed Incidents, Requests and changes through JIRA and used TFS for source code management.

**Projects**

**Kaggle Projects**

* *Titanic: Machine Learning from Disaster competition -* Utilized feature engineering to better expose data and parameter tuning to optimize the model which ranked **Top 6%** predicting outcomes accurately.
* *Digit Recognizer* - Implemented basic neural network on MNIST data with 97% precision.
* *Microsoft Malware Prediction –* Employed Dask to deal with huge dataset (8 million rows) using parallel processing and various imputations to handle missing values. Used Catboost, ensembled decision trees algorithms.

**Decision Tree from scratch**

Built decision tree from scratch in MATLAB, utilized entropy as criteria for calculating information gain to split the tree nodes. Acquired 68% accuracy on breast cancer data.

**Information retrieval and Query Processing**

Developed IR model which does indexing, processing and querying textual data. Retrieves documents which are appropriate for a given query using cosine similarity.

**Trainings and Certifications**

* AWS Certified Cloud Practitioner (Validation No - [JTJH042KLF44193P](https://www.certmetrics.com/amazon/public/badge.aspx?i=9&t=c&d=2019-05-13&ci=AWS00873687)) May 2019
* Neural Networks and Deep Learning by deeplearning.ai on Coursera. Sep 2018
* Big Data 101 and Hadoop 101 on IBM cognitive class. Jan 2018
* Statistics Foundation: 1, 2, 3 on Lynda. Dec 2017
* Data Science Foundations: Fundamentals and Data Mining on Lynda. Dec 2017
* Machine Learning by Stanford University on Coursera. Aug 2017

**Activities**

* Active member in IEEE Computer Society and Association for Computing Machinery.
* Volunteered for cleanup drives and community services conducted by FWOP. (Future Without Poverty)