K. ASHWIN VISWANATHAN

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DATA SCIENCE PROJECTS

Data Analysis & Visualization – HR Analysis Case Study 🔽

Contributed Python notebook to Kaggle performing a detailed end to end Exploratory Data Analysis and Visualization

Predicting Airfoil Sound pressure using TensorFlow O

Developed a Machine Learning model to predict the sound pressure in decibels from different sizes of NACA 0012 airfoils at various wind tunnel speeds and angles of attack

Detecting Peanut Flowers in a Peanut farm O

Built a Machine Learning model to detect and count peanut flowers in a peanut bush in an effort to avoid manual counting by farmers.

Diagnosing Post Traumatic Stress Disorder (PTSD)

Received \$250 cash prize and RIATA Rising Star award for developing PTSD diagnosing model using Machine Learning

DATA SCEINCE EXPERIENCE

Dell Inc.

Data Scientist Intern

Summer 2018 Texas, USA

- Developed machine learning model that advises planners on whether a replenishment order for low volume part should be approved/rejected to minimize excess.
- Improved excess avoidance through machine learning by 45%
- Enhanced the planner review process by balancing Excess & Customer Experience

Koch Industries Inc.

Data Scientist Intern

Summer 2020 Wichita, KS

- Helped identify reliable parts suppliers by implementing Text Analytical models in Python that extracts key terms from repair logs.
- Used Neo4j a graph database to develop data models for faster retrieval of data
- **Developed** data processing and cleaning scripts using Python to be used across machine learning projects within Koch.

OSU BAE & USDA

Fall 2017 OK. USA

Image Processing & Database Intern

- Used Computer Vision algorithms to **detect** peanut flowers in peanut grass farm
- Wrote code to interface Microsoft Kinect mounted on a RC cart to capture images of
- Configured and installed LAMP (Linux Apache MySQL and PHP) stack for hosting a webserver

DATA ENGINEERING EXPERIENCE

Cognizant Technology Solutions

2010 - 2015Chennai, India

Associate - Data Engineering

- Extensively involved in technical and business discussion with various portfolio owners on understanding the business requirements.
- Implemented data models improving data transformation and loading routines resulting in faster and efficient retrieval of key business metrics
- Conducted **several training sessions** for new hires and experienced developers on efficient Data Engineering practices

EDUCATION

Oklahoma State University

Dec 2021

PhD. Computer Science

Oklahoma State University

Dec 2018

May 2010

MS. Computer Science

Anna University

Bachelor of Engineering, Computer Science

ACADEMIC ACTIVITIES & HONORS

- Awarded Top Tier merit scholarship of \$5000
- Published 2 first author and 3 second author conference papers in peer reviewed conference publications
- Invited as reviewer for IEEE Symposium Series on Computational Intelligence - 2020, 2021
- Selected as both student and mentor in the competitive Neuromatch Academy bootcamp on Machine Learning and Computational Neuroscience

KEY SKILLS

Machine Learning

scikit-learn, numpy, pandas, Tensorflow, opency, spacy, nltk, Neural Networks, XGBoost, Spiking Neural Networks, Natural Language Processing

Statistics

Data cleansing, Exploratory Data Analysis EDA, Regression, Resampling, Feature engineering, Forecasting, Regularization, Descriptive / Inferential statistical data analysis, Data Visualization

Programming

Python, R, Java, Processing 3.x

Database Programming

SQL, PL/SQL, MySQL, PostgreSQL

Web Programming

HTML, D3.js

Big Data

Apache Spark, Hadoop

ETL / Business Intelligence

IBM DataStage, Pentaho Data Integration, Informatica

Other

Unix, Shell Scripting, Git