NIDHI SAKHALA

Contact

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nsakhala/

Skills

PROGRAMMING LANGUAGES

Python
Angular JS
HTML/CSS
NASM
VBA
SQL
SAS
C/C++
Java

TOOLS

Microsoft Project
Power BI
SQL Data Modeler
Toad for Oracle
MS visio
MS Office
Protégé
Weka
Android Studio
Oracle Data Visualization Desktop

Relevant Coursework

Deep Learning

Statistics and Regression Analysis

Data Warehousing

Data Mining Techniques and Applications

Business Intelligence and Analytics

Advanced Network Security

Problems in National Information Security

IT Project Management

Natural Language Technologies

Summary

Graduate IT engineer seeking experience in the analytics domain. Tackles challenges with an inquisitive and enthusiastic attitude.

Education

Purdue University (GPA - 3.83) — 2017 to Current
M.S (Thesis) in Computer and Information Technology

Cummins College of Engineering for Women (GPA - 3.7) — 2013 to 2017
BE in Computer Engineering
First Class with Distinction

Work Experience

Purdue University — West Lafayette
Teaching Assistant — Aug. 2018 to Current
o Conducting practical labs for 'Database Fundamentals'.
o Involves Relational databases and SQL queries.

Cummins Inc. — Indianapolis, IN
Project Coordinator Intern — May 2018 to Aug. 2018
o Generated an interactive interdependency diagram between IT projects using MS Visio to provide easy interpretation and planning.
o Implemented Sentiment analysis on customer reviews using Oracle Data Visualization tool.
o Created a dashboard to help business review engine repair capability globally using Power BI.

Purdue University — West Lafayette
Research Assistant — Aug. 2017 to April 2018
Researched about Community detection and Heartbleed attack.

Persistent Systems Limited — Pune, India
Project Intern — Aug. 2016 to April 2017
o Developed a website using AngularJS and Spring Framework.
o Led the front-end development.
o Created a portal for NGOs to share their work and for citizens to participate or volunteer with.

Projects

Intrusion Detection using Neural Networks and Random Forest
o Modelled an Intrusion Detection System to classify 9 types of attacks with 99.9% accuracy.
o Compared the performances of Neural Network and Random Forest algorithms.

Sentiment Analysis on Amazon Reviews
o Used NLTK to categorize reviews by customers on kitchen products as good, bad or neutral.
o Identified top 'gifts' based on reviews which could be used as recommendations during holiday seasons.

Prediction of Average Life Expectancy for Indiana residents
o Developed a regression model to predict the average life expectancy of a county based on factors like population, air quality, rate of infections, etc.

Prediction of Type of crime in Chicago
o Created a decision tree to handle big data about crime information in Chicago from 2000-2016.
o Predicted type of crime for 2017 based on region information provided with 90% accuracy.

Applications of Machine Learning in Astronomy
o Explored the variations of machine learning algorithms with respect to their application in Astronomy.
o Selected as one of the best 15 presentations among 150 projects.

Accomplishments

Secretary, Purdue Astronomy Club

Cummins-Purdue Fellowship

Best Outgoing Student of Computer Engineering for 2016-17