SAI MEGHANA SURAPANENI

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EDUCATION

Northeastern University, Boston, MA **Jan'22- Expected Dec'23**
Master of Science in Computer Software Engineering
Grade: 3.259/4
Courses: Concepts of Object-Oriented Design, Program Structures and Algorithms, Web Design and User Experience Engineering

GITAM University, India **Jun'17- Aug'21**
Bachelor of Technology in Computer Science and Engineering
Grade: 8.69/10
Courses: Data Structures, Object-Oriented Programming, Design and Analysis of Algorithms, Operating Systems, Database Management Systems, Web Technologies, Cloud Computing, Agile Software Engineering, Cryptography and Network Security, Artificial Intelligence Machine Learning

SKILLS

Programming Languages: Java, Python, C++, C
Database Systems: SQL, MongoDB
Web-Technologies: HTML, CSS, JavaScript
Front-End Technologies: Bootstrap, React, Angular
Back-End Technologies: ExpressJS, NodeJS, SpringBoot MVC
Data-Science Tools: Scikit-learn, Pandas, Matplotlib, NumPy, Jupyter
Machine Learning: Supervised Learning, Unsupervised Learning, Reinforcement Learning
Operating Systems: Linux, Mac, and Windows
Version Control: Git, GitHub

WORK EXPERIENCE

Dhyanahitha School of Professionals, India **May'20- Jul'20**
Artificial Intelligence and Machine Learning Intern

- Developed AI & ML domain application by experimenting with various Machine Learning Algorithms
- Implemented exploratory data analysis and data handling techniques on large data sets for building Image recognition and Personal Assistant application

PROJECTS

The Menace Machine **Mar'22- Apr'22**

- Trained a machine to play tic-tac-toe against human strategy by leveraging a rewarding mechanism as in reinforcement learning and attained a (win+draw) percentage of 80% after 500 games

Parkinson's Disease Detection and Its Clinical Analysis **Jan'21- Mar'21**

- Developed a classification model to detect Parkinson's disease by analysing speech data
- Applied data pre-processing techniques and used principal component analysis to select 101 important features from the original data set of 756 features with PCA variance of 97%
- The Principal component analysis plays an important role which gained 95% on different eigen values for handling data
- Identified the most efficient algorithm for the data set using AutoML and achieved an accuracy of 93% with KNN and Fast LCA

Student Career Prediction **Sep'20- Oct' 20**

- Developed a model for predicting the student career path using the student interest dataset containing different fields related to a candidate's interest and experience
- Experimented with various algorithms including: Decision tree classifier, Support Vector machine, Naive Bayes Classifier, Random forest classifier, KNN and Logistic Regression
- Obtained the accuracy of ~95% with Naive Bayes Classifier upon using feature engineering and multiple random feature sets

Churn Prediction **Jun'19- Aug'19**

- Implemented classification based Machine Learning Algorithms on Telecom data to predict churn rate
- Performed experiments using Logistic regression, KNN and Random Forest algorithm and used various techniques for hyperparameter tuning
- Able to achieve an accuracy of 91% on unseen test data using KNN and GridSearchCV

CERTIFICATIONS

Service-Oriented Architecture	**Cryptography**	**Python Data Structures**
University of Alberta	**University of Maryland, College Park**	**University of Michigan**
Issue Date: May'21	**Issue Date: Nov'20**	**Issue Date: Nov'20**
Expiration Date: No Expiration	**Expiration Date: No Expiration**	**Expiration Date: No Expiration**
Credential ID:BW74XT7R9BD8	**Credential ID: JUJKUP8N9LRV**	**Credential ID: VJ6FC9R3X3BY**