PRATIK MOHARE

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PROFILE SUMMARY

• Dedicated and reliable professional with 3 years of industry experience in a fast-paced and changing environment.
• Innovative, committed, and confident individual with good work ethic.
• Patience, flexibility and affinity to work with people from diverse backgrounds and enhance team engagement.

ACADEMIC PROFILE

Master of Science: Volgenau School of Engineering, George Mason University, Fairfax, US Jan 2021-Dec 2022
Major: Computer Science GPA:3.8

Bachelor of Engineering: Atharva College of Engineering, Mumbai University, India Aug 2012-May 2016
Major: Computer Engineering GPA: 4.0

EXPERIENCE

Senior System Engineer: Infosys Limited, India Feb 2017-Dec 2019
Risk Management, Northern Trust Corporation (NTRS)
• Performed Extraction, Transformation and Data Loading (ETL) using IBM DataStage and SQL.
• Generated Statistical Reports for higher management using SAP BusinessObjects (BO).
• Led and managed a diverse team of finance and technical individuals
• Identified and troubleshoot issues in a fast-paced real time banking environment

Software Development Intern: Solar Edutech, India Jun 2016-Jul 2016
• Developed & maintained Employee Records Management System with Object-oriented design & Java Database Connectivity (JDBC)

PROJECTS

Ecommerce Products Matching (Shopee – Kaggle Competition)
• Image Classification using SIFT, SURF, BRIEF, ORB & Text Classification using TFIDF and Word2Vec
• P-Hash matching
• Image classification using deep learning.
  • ANN with Rectified Linear Activation (RelU**)** and Sigmoid function
  • Convolutional Neural Network CNN with pre-built models like MobileNet & Inception V3

Credit Risk Prediction
• Pearson's correlation coefficient for statistical relation amongst features and association to determine features of interest
• Used SMOTE (Synthetic Minority Oversampling Technique) & Scaled features
• Used ensemble methods with bagging and boosting

Amazon Reviews Analysis
• Data Cleaning- Lemmatization & Stemming, removed stop words and punctuations etc.
• Implemented Term Frequency - Inverse Document Frequency (TFIDF)
• Classification using K Nearest neighbors (KNN) classifier

Motion Detection & Tracking: Real-time motion detection & tracking for security using OpenCV & Python. Logging intrusions with timestamp logs and video evidence

Map Routing: Implemented Minimum spanning (Shortest Route tracing) and relay time calculation with Kruskal's Algorithm for optimal path using Python and Folium library

Enigma Machine Emulator: Python implementation of the infamous Enigma Machine (having nearly 159 quintillion encoding settings); a device used by the German military to encode strategic messages during WW2. Complexity is comparable to 88-bit encryption.

Cursor Control using Eye Movement: Bachelors Major Project
• Built a Real-time eye tracking based touch-free human-computer interaction through a webcam using Java and OpenCV.
• Elicited requirements by creating scenarios, developed project roadmap and documentation.
• Designed and developed proof of concept for application of eye tracking in accident avoidance and drowsiness detection system in automobiles.

SKILLS

Programming Languages	:	Python, Java, C/C++, Ruby, Lisp, HTML/CSS, JavaScript, Django
Database	:	Oracle SQL, PL/SQL, MySQL
Frameworks / Tools	:	NumPy, Pandas, Scikit-learn, OpenCV, Matplotlib, Hadoop, Spark, MATLAB, Octave, SAP NetWeaver, SAP BusinessObjects, DataStage, QT Creator, MS Office, Adobe Photoshop