AMAN SARAWGI

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SUMMARY

Computer engineer currently pursuing masters at Virginia Tech with knowledge of software development and application using various tools. Enthusiastic problem solver with strong leadership and communication skills

Areas of Interest: Python Programming, Object Oriented Programming, Data Analysis, Data Warehousing, Machine Learning, Artificial Intelligence, Algorithm Analysis, Web Development, Software Development, Communication Systems, Cyber Security, Cryptography

EDUCATION

Virginia Polytechnic Institute and State University, Virginia   Expected Graduation May 2023
Masters of Engineering, Computer Science and Application
Coursework: Advance Machine Learning, Data Analytics, Introduction to Urban Computing

Mumbai University, Mumbai, India   Oct 2020
Bachelor of Engineering, Computer Engineering, GPA 3.7/4.0

SKILLS

- **Programming and Database Management Languages**: R, Python, C, C++, Java, JavaScript, SQL, MySQL
- **Web Application:** HTML, CSS, PHP
- **Microsoft Application**: MS Excel, MS Word, MS PowerPoint, MS Outlook

ACADEMIC PROJECTS

Analysis Of Twitter Accounts To Detect bot (Machine Learning and Python)
- Built a model to identify certain keywords which helped classify twitter accounts to detect if it was a bot or not
- Identified and optimized predictive model after comparing Random Forest Classifier, Decision Tree and K-nearest neighbor algorithm. The Random Forest Classifier approach result in an accuracy rate of (=86%) percent

Human Emotion Detector (Machine Learning and Python)
- Designed a model using convolution neural network to recognize happy, sad and neutral emotions of a human being
- Trained the model with a self-generated dataset and used a testing dataset to validate and measure the efficiency and accuracy of the model which was 77.4%

Deals On Wheels (HTML, PHP and JavaScript)
- Created a website where the user can log in with their credentials which is stored in the database using PHP
- Designed the website to make it easier for the user to access various options like buying, selling or renting a car and directly contacting the buyer or seller

Walmart Receipt Generator (SQL and python)
- Generated a customizable wholesale database with items and their prices that stored customers log in credentials
- Automated receipt is generated with total amount once the customer checks out with all the items listed
- The customer could insert, delete or update any item on the list as per their convenience

Drink Dispenser (C Programming)
- Developed a drink dispenser using the graphics library of C programming (graphics.h)
- Drinks are provided to the consumer who make the necessary selections, the indicator present above every dispenser changes its color from red to green while a drink is being poured

Biometric Fingerprint Attendance System (Arduino)
- Built a device to record the time of entry and attendance details of user
- Generated detailed list to mark and record the attendance

ACTIVITIES & HONORS

- Various accolades and accomplishments in chess tournaments during college sports events
- Head Representative of CESS Committee at Rajiv Gandhi Institute of Technology, India
- Managed developmental activities of Akanksha Foundation for underprivileged Children