Avantika Poddar

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LinkedIn
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Github
https://github.com/imavantikahere

EXPERIENCE

Beta Information Technology, Dubai — *Summer Intern*

JULY 2020 - SEPTEMBER 2020

Delivered weekly presentations and demos through research based learning of industry concepts like Virtualization, Cloud Computing and Cybersecurity.

American University of Sharjah, UAE — *Assistant Grader*

SEPTEMBER 2020 - DECEMBER 2020

Updated teaching material like presentations, chapter summaries, etc. for an undergraduate course in Microcontrollers taught at University.

EDUCATION

University of Southern California (USC), USA —Master of Science in Computer Science

AUGUST 2021 -PRESENT

American University of Sharjah (AUS), UAE —Bachelor of Science in Computer Engineering

JANUARY 2018 -JUNE 2021

Graduated Magna Cum Laude
Chancellor's List, 2018– 2020

PROJECTS

Library Records System

Using C++ classes and objects to build a system that can emulate the process of a library membership system.

Zork- like adventure game in Java

Using OOP concepts in Java and different software designs to implement a role playing adventure game and incorporating simple phone sensors to emulate game actions.

SKILLS

- Python
- C/C++
- Java
- Kali Linux
- CouchDB
- Packages: Flask, Pandas, SciKit, NumPy, Prolog

RELEVANT COURSES TAKEN

- Data Structures and Algorithms
- Software Design
- Software Engineering
- Artificial Intelligence
- Data Mining and Machine Learning
- Neural Networks and Deep Learning

CERTIFICATIONS

IBM Professional Certificate in AI Engineering

LANGUAGES

English, Hindi, Bengali (Fluent)

Miscellaneous AI Projects

- Using search algorithms to follow goal paths after generating appropriate search spaces, to solve puzzles like 8's Puzzle, River Crossing Puzzles, etc.
- Using Python Constraint to solve complex puzzles like Goloumbs Ruler, Einstein's Puzzle.
- Using Logic Programming to create a vast knowledge base using Prolog and then using queries and predicates to extract information from the Knowledge Database.

Password Strength Detection Using Machine Learning

Using Classification methods for the detection of good/bad password using a csv database of breached passwords obtained from haveibeenpawned.com, including k-Means, Decision Trees, SVM, and Logistic Regression; and using Evaluation methods like F1 Score and Log Loss to find accuracy of predicted results.

Intelligent Detection of TV Viewer Engagement

IoT based Computer Vision and Deep Learning project that analyses body language of TV viewers to determine level of engagement TV content/consumer analysis by TV network companies