

Avantika Poddar

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<https://github.com/imavantikahere>



imavantikahere.github.io



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 — Student 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 Java OOP to implement a role playing adventure game and incorporating simple phone sensors to emulate game actions.

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.

Hypothetical Vaccine Performance Tracker Web Application

Using HTML/CSS, JavaScript, and CouchDB to build a A COVID-19 Vaccine tracker website, incorporating software engineering principles to attempt at contributing towards useful and responsible spreading of information about different brands of vaccines available in the market.

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.



SKILLS

Languages

Proficient: Python, C/C++, SQL
Intermediate: Java, JavaScript, HTML/CSS
Basic: MATLAB, Prolog

Software

Proficient: mySQL, Eclipse, Anaconda
Intermediate: Kali Linux, CouchDB, Logisim
Basic: AWS, GCP, MATLAB

Libraries

Proficient: Keras, NumPy, Scikit Learn, Pandas, Matplotlib
Intermediate: Flask, Node.js, React.js
Basic: Constraint, TensorFlow, Pytorch



RELEVANT COURSES TAKEN

- Programming in C++;
- Data Structures and Algorithms;
- Software Design and OOP in Java;
- Software Engineering;
- Artificial Intelligence;
- Data Mining and Machine Learning;
- Neural Networks and Deep Learning;
- Embedded Systems and Microcontrollers Programming;
- Computer Architecture;
- Database Systems
- Computer Security



CERTIFICATIONS

IBM Professional Certificate in AI Engineering



ACTIVITIES

- Executive Assistant, upcoming Tau Beta Pi chapter at AUS
- Member, Upsilon Pi Epsilon
- Volunteer Translator, Translators Without Borders
- Volunteer reader, Librivox.org
- Student Video Reviewer, IEEE Image Processing Conference, Abu Dhabi, 2020
- Finalist, Undergraduate Research Awards, Abu Dhabi University, June 2021
- Recipient of Undergraduate Research Award Grant, AUS, 2020-2021