ANISH OSWAL

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EDUCATION

Master of Science in Computer Science   (Expected) May 2021
Arizona State University, Tempe, AZ   3.67/4 GPA
RELEVANT COURSEWORK- Knowledge Representation, Data Mining, Social Media Mining, Distributed Database Systems, Data Visualization, Statistical Machine Learning, Artificial Intelligence, Systems Design for ML.

Bachelor of Engineering in Computer Science and Engineering   May 2019
Savitribai Phule Pune University, Pune, India   8.82/10 CGPA
RELEVANT COURSEWORK- Machine Learning, Data Mining and Warehousing, Data Analysis, Advanced Data Structures.

TECHNICAL SKILLS

- **Programming:** Python, R, Java, C#, C++, C, Clingo (ASP), JavaScript, HTML, CSS, Bootstrap
- **Frameworks:** NumPy, PyTorch, Scikit-Learn, SciPy, Keras, Pandas, Seaborn, Matplotlib, Plotly, TensorFlow, OpenCV
- **Technologies:** AWS, Tableau, Android, WordPress, Git
- **Databases:** MySQL, Oracle, MongoDB

PROFESSIONAL EXPERIENCE

Web Developer/ Desktop Support Assistant | Arizona State University   Dec 2019 – Present
- Developed Arizona State University websites using **WordPress, HTML and CSS**.
- Assisted students & faculty with **debugging their codes** along with other IT related **hardware and software issues**.
- Managed **computer equipment**, unboxing & setting up new computers and **inventory** for the university.

Android Developer (Intern) | InProspect Technologies   Jun 2018 – Aug 2018
- Led the **UI & UX Design** team on **Material Design** schematics for building an education eccentric android application.
- Administered **User Analytics**, Front-end & Back-end app development using **Python** & **Java for Android.**

Software Engineer (Intern) | A.B. Enterprises   April 2017 – March 2018
- Implemented & deployed a **Stock Management & Sale Analysis** Software using **Java**, **Python**, **MySQL** & **MongoDB**.
- Constructed a local **cloud server** for inhouse technical management resulting in **20% increased work productivity**.

ACADEMIC PROJECTS

Emotion Detection using Federated Learning   Spring 2020
- Developed an Emotion Detection algorithm using Federated Learning which used **VGG-19, federated averaging** & **encryption methodologies** with **75%** accuracy & eliminating privacy concerns of a user with **PyTorch - Python**.
- Tested the algorithm on different edge devices on **multiple datasets** such as JAFFE, FERG, FER-2013 & FacesDB.

Lifelong Planning Pac-Man   Spring 2020
- Programmed an optimal lifelong planning algorithm for Pac-Man using **A*, A* lifelong & D* lite algorithms** in **Python**.
- Constructed a **comparative report** on all the algorithms based on achieved scores, expanded nodes & execution time.

Information Dissemination in a Graph   Fall 2019
- Implemented information dissemination to observe the propagation of an entity like a meme or a virus using **Python**.
- Integrated the algorithms (**NetShield, K-Edge addition & deletion**) into an ensemble system to maximize or minimize information spread through a network which can be used to stop a virus or spread information on the web.

Software Development for Laser Marking Machines   Fall 2018 - Spring 2019
- Assembled 3 modules: Automation of marking jobs, camera orientation & image correction, & real-time error detection into a desktop software for automating the laser marking machines using **C#, Java, VS19, Python**.

Sentiment Analysis   Winter 2018
- Modeled an all-purpose sentiment analysis program with **85%** accuracy on datasets like twitter & reddit using **Python**.

EXTRA-CURRICULAR

- Helped organizing multiple national level workshops & events related to computer science & entrepreneurship as an active member of **Computer Society of India (CSI)** and **Entrepreneurship Development Cell, VIIT** respectively.