SIDDHI POTDAR

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EDUCATION

University of Texas at Dallas, Richardson, USA	**Aug 22 - May 24 (Expected)**
Masters of Science - Computer Science **GPA: 3.7/4.0**	
Savitribai Phule Pune University, Pune, India	**Aug 17 - Jul 21**
Bachelor of Engineering - Computer Science **GPA: 3.8/4.0**	

EXPERIENCE

Hewlett Packard Enterprise, Houston, USA — **May 23 - Aug 23**
AI & Machine Learning Engineer Intern
- Interned with the HPC & AI busniess unit, specifically HPE Cray, pioneers in exascale supercomputing systems.
- Developed 3 new features for the software for large scale HPC systems using data analytics and machine learning.
- Conducted code reviews, wrote comprehensive documentation, built prototypes for the new features and participated in presentations to stakeholders and leadership.

PubMatic, Inc., Pune, India — **Apr 21 - July 22**
Machine Learning Engineer
- Worked in the machine learning team at the programmatic advertising company that has over 500 clients globally that use the platform.
- Built and improved Spark and Hadoop pipelines for the execution of automation test suites and report generation for multiple machine learning projects.
- Performed unit testing and regression testing, with more than 80% code-coverage for 2 ad-bidding projects, to identify data drift leading to model decay in production.

Persistent Systems Pvt. Ltd., Pune, India — **Jan 21 - Mar 21**
Software Developer Intern
- Underwent training and assesments in industry technologies like Java, RDBMS, Maven, and Git at the multi-national software product company.

myMO IT Solutions, Remote — **Jan 20 - Mar 20**
Software Developer Intern
- Developed a web app that extracts the table of contents of a documentation website, whilst preserving its structure.
- The deployment showed a 90% accuracy on standard documentation websites and created a browsable index per site.

PUBLICATIONS & PATENTS

Artificial Vision for Visually Impaired, published in **Journal of Critical Reviews**	**Aug 20**
Patent filed for application design Artificial Vision for Visually Impaired project, at **Indian Patents Office**	**Aug 21**

SKILLS

Computer Languages:	Python, C++, HTML, Java
Frameworks:	scikit-learn, TensorFlow, Keras, Flask, Scrapy, Bootstrap, Selenium, Bootstrap, Docker, Git, Spark, Hadoop, Jupyter
Databases:	MySQL, MongoDB

PROJECTS

Hogwarts: A VR Experience *(Tech: C#, Unity, Blender)* — **Apr 23**
- Created an immersive Android VR application to tour the Hogwarts campus. Implemented proximity-activated voice chat, along with a wide array of engaging interactive features.

Generating Counter Narrative for Hate Speech *(Tech: Python, Tensorflow)* — **Apr 23**
- Utilized BERT model to perform hate speech classification on different narratives. Fine-tuned GPT-2 and XLNet using multi-conan dataset for NLG task. Evaluation resulted in XLNet achieving a BLEU score of 0.598.

arXiv Paper Tagger *(Tech: Python, scikit-learn)* — **Sep 22**
- Used the scikit-learn library to solve a multi-label classification problem to tag arXiv papers with relevant categories. Performed preprocessing of the data using word embeddings and sentence embeddings. Assessed the performance of different supervised machine learning algorithms, performed hyper-pameter tuning and achieved 96% accuracy.

Revenue Forecasting *(Tech: Python, Prophet)* — **Jul 22**
- Used the Prophet library from Facebook to forecast the daily and quarterly revenue of PubMatic using real-time data. Insights and trends obtained helped the company maximize their profits by scaling efforts in peak holiday season.

Video Ads Categorization *(Tech: Python, TensorFlow, Keras, Hadoop & OpenCV)* — **Dec 21**
- Used the EfficientNet model to predict the metadata from video ads to help their IAB categorization.

Artificial Vision for Visually Impaired *(Tech: Python, Flask, Anvil, Ionic, JUnit, PyTorch)* — **May 21**
- Developed an end-to-end voice-controlled android app that assists the visually impaired by answering questions about their surroundings. It give near-instant and accurate responses to users by using web APIs for speech-to-text and text-to-speech and lightweight machine learning libraries for computer vision.

Facial Recognition Based Attendance Marking System *(Tech: Python, TensorFlow)* — **Sep'19**
- Developed a desktop-based efficient attendance marking system and data analysis tool using Python. Front-end built using PyQt5, and database management implemented using MongoDB.

HONORS AND AWARDS

First place at the Revenue Forecast Competition held over 2 quarters at PubMatic with more than 10 teams.	**2022**
Awarded **#TeamWork individual award** at PubMatic for significantly reducing automation backlogs and contributing to framework enhancements.	**2021**
First place at the IET-Hackathon at PCCOE, among more than 50 participating teams.	**2021**
Semi-Finalist at Avishkar Project Competition held at an inter-university level.	**2019**