SIDDHI POTDAR

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EDUCATION

University of Texas at Dallas, Richardson, TX	Aug'22 - May'24 (Expected)
Masters of Science - Computer Science **GPA: 3.78/4.0**	
Savitribai Phule Pune University, Pune, India	Aug'17 - Jul'21
Bachelor of Engineering - Computer Science **GPA: 3.86/4.0**	

EXPERIENCE

PubMatic, Inc.   Apr'21 - July'22
Machine Learning Engineer (Full-time)   Pune, India
- Worked in the ML 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 ML 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.   Jan'21 - Mar'21
Software Developer Intern (Part-time)   Pune, India
- Underwent training and assesments in industry technologies like Java, RDBMS, Maven, and Git at the multi-national software product company.

myMO IT Solutions   Jan'20 - Mar'20
Software Developer Intern (Part-time)   Remote
- 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, Anvil, Spark, Hadoop
Databases:	MySQL, MongoDB

PROJECTS

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 pre-processing of the data using tf-idf word embeddings and fastText sentence embeddings. Assessed the performance of different supervised ML algorithms and performed hyper-pameter tuning and achieved 96% accuracy.

NFT Trading Platform *(Tech: Python, Bootstrap, SQL, Flask)*   Sep'22
- Built an end-to-end web-app that helped in buying and selling NFTs, and featuring an interactive admin dashboard. Used flask, bootstrap, and a cloud hosted SQL database to support scalability.

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 ML libraries for computer vision.

RFID-based Smart Trolley *(Tech: Raspberry Pi, RFID & Python)*   Mar'20
- Built a smart shopping cart that uses RFID technology to mark the price of added items and generate the final receipt.

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.

Image Captioning Model *(Tech: Python, TensorFlow, Flask, HTML & CSS)*   Jun'19
- Built a responsive web app using Flask that performs RNN based image captioning.

HONORS AND AWARDS

[2022] First place at the Revenue Forecast Competition held over 2 quarters at PubMatic with more than 10 teams.
[2021] 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.
[2019] Semi-Finalist at Avishkar Project Competition held at an inter-university level.
[2018] Runner-Up at Tech-Treasure Hunt Competition, PCCOE-Spectrum, among more than 80 participating teams.
[2017] Awarded a scholarship by the city of Pimpri Chinchwad for exemplary performance in the senior year of high school.
[2017] Student of the Year at Gyan Ganga International School, Pune for outstanding extra-curricular & academic performance.

VOLUNTEERING

Head of Communication and Personality Development Cell : ACM Student Chapter   Jul '19 - Aug '20
- Organized online and offline technical & soft-skills workshops and competitions impacting over 500 students.

Volunteer at conference management team : ICCUBEA(IEEE) Conference   Oct '18
- Helped to manage the 4th International Conference on Computing, Communication, Control and Automation.