

SIDDHI POTDAR

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EDUCATION

University of Texas at Dallas, Richardson, TX
Masters of Science - Computer Science **GPA: 3.78/4.0**
Savitribai Phule Pune University, Pune, India
Bachelor of Engineering - Computer Science **GPA: 3.86/4.0**

Aug'22 - May'24 (Expected)

Aug'17 - Jul'21

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 assessments 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, 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-parameter 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.