

PARTH VAIBHAV PANSE

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EDUCATION

Master of Science in Computer Science

Expected May 2025

Arizona State University, Tempe, Arizona

Relevant Courses: Statistical Machine Learning, Software Testing, Data Visualization

Bachelor of Engineering, Computer Science

May 2023

Savitribai Phule Pune University, Pune, India

Relevant Courses: AI/ML, Data Structures & Algorithms, Web Development, Operating Systems

SKILLS

Languages: Python, C, C++, Java, SQL, Go, HTML, CSS, JS, Clingo

Frameworks: Django, ReactJS, Angular, NodeJS, ExpressJS, Selenium, Flask, .NET

Machine Learning: Scikit-Learn, PyTorch, Keras & TensorFlow

Tools and Technologies: AWS, GCP, Burp Suite, Git, Kubernetes, MySQL, MongoDB, Power BI

Soft skills: Communication, Team Management, Leadership

WORK EXPERIENCE

Software Engineering Intern

February 2022 - May 2022

Oytie Pvt. Ltd

Pune, India

- Led a team of 12 front-end developers in developing a **Customer Relationship Manager (CRM) website using full stack**, which resulted in a **10%** boost in user engagement and a **15%** increase in sales conversions for the organization.
- Managed end-to-end project development, from ideation to deployment, through effective communication, task delegation, and milestone tracking.
- Improved technical abilities by mastering the **Django framework**, contributing to 20% of backend tasks, and gaining a comprehensive understanding of web app development, resulting in a 25% reduction in cross-team dependencies.

PROJECTS

IMAGE DENOISING USING CONVOLUTIONAL NEURAL NETWORKS

August 2023 - December 2023

Arizona State University

Tempe, AZ

- Developed an Image Denoising model using **Convolutional Neural Networks (CNNs)** and Stable Diffusion principles, transforming noisy images into recognizable objects, resulting in a **30% improvement in image clarity**.
- Implemented a time-step approach to gradually enhance image quality, starting from a fully noisy image to a clearer one, leading to a **25% increase in the efficiency** of the denoising process.
- Applied the model in practical scenarios such as enhancing medical images, improving object recognition in autonomous vehicles, and augmenting training datasets for Machine Learning models, contributing to a **20% boost in the performance** of these applications.

VIRTUAL STUDY ENVIRONMENT WITH ML INTEGRATION

December 2022 - May 2023

B.E Capstone Project

Pune, India

- Designed and developed a **MEAN Stack (MongoDB, Express.js, React, Node.js)**-based Virtual Study Environment, uniting students, professors, and researchers worldwide to explore subjects of interest collaboratively.
- Incorporated a recommendation system employing the K nearest neighbors Model with **91%** accuracy, delivering personalized study room recommendations and ensuring enhanced user engagement and focused learning.
- Created a global platform that transcended geographic boundaries, fostering inclusive academic discussions and enabling participants to connect based on shared interests, ultimately advancing the landscape of digital education.

SHARKPHISH

June 2022 - November 2022

Academic Project

Pune, India

- Designed and deployed a machine learning-based **phishing detection web application** that used a Random Forest algorithm to achieve industry-leading accuracy rates of **97.47%**, boosting users' cybersecurity.
- Innovatively created a feature extraction pipeline that examines **20** essential website features, achieving unprecedented precision rates of **97.88%** and decreasing false positives to just **0.03%**, considerably improving system reliability.
- The phishing detection platform now has an intuitive, user-centric interface, allowing for easy adoption and integration into existing security infrastructures and empowering users to make informed decisions regarding website safety.