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 Engineer 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 the MERN stack (**MongoDB, Express.js, React, Node.js**), 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, contributing to 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**-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.