

# PARTH VAIBHAV PANSE

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## EDUCATION

<b>Master of Science, Computer Science</b> Arizona State University, Tempe, AZ	May 2025 3.63 GPA
<b>Relevant coursework:</b> Cloud Computing, Statistical Machine Learning, Data Visualization	
<b>Bachelor of Engineering, Computer Science</b> Savitribai Phule Pune University, Pune, India	July 2023 3.52 GPA
<b>Relevant coursework:</b> Machine Learning, Data Science and Big Data Analytics, Artificial Intelligence	

## TECHNICAL SKILLS

**Languages:** *Python, C, C++, Java, SQL, Go, HTML, CSS, JavaScript*  
**Frameworks:** *Django, ReactJS, Angular, NodeJS, ExpressJS, Selenium, Flask, .NET*  
**Machine Learning:** *Scikit-Learn, PyTorch, Keras, TensorFlow*  
**Tools and Technologies:** *AWS (EC2, S3, SQS, SimpleDB), Git, Kubernetes, MySQL, MongoDB, Power BI*

## PROFESSIONAL EXPERIENCE

<b>Oytie Pvt. Ltd, Pune, India: Software Engineer Intern</b>	February 2022 - May 2022
<ul style="list-style-type: none"><li>Collaborated with a team of <b>12 interns</b> to design and implement a CRM web application using <b>Django and React</b>, integrating <b>PostgreSQL</b> for data management, resulting in a <b>10% improvement</b> in user retention.</li><li>Optimized <b>25+ RESTful APIs</b> using <b>Django REST Framework</b>, diminishing average response times by <b>40%</b> and elevating system scalability to handle <b>10,000+ user</b> interactions per day.</li><li>Implemented containerized workflows with <b>Docker</b> and automated <b>CI/CD</b> pipelines via GitHub actions, cutting deployment times by <b>30%</b> and eliminating manual errors by <b>90%</b>.</li><li>Executed <b>200+</b> automated tests through <b>Pytest</b>, increasing software reliability by <b>35%</b> and maintaining <b>99.9% up-time</b> post-deployment.</li><li>Managed <b>Agile development</b> cycles using Jira, overseeing sprint planning and backlog refinement, leading to a <b>25%</b> increase in team efficiency and a <b>20%</b> faster release cycle.</li><li>Conducted rigorous code reviews and peer programming sessions to uphold <b>coding standards</b>, enhance team collaboration, and reduce post-deployment bugs by <b>25%</b>.</li></ul>	

## ACADEMIC PROJECTS

<b>Scalable Face Recognition System on AWS</b>	March 2025 - May 2025
<ul style="list-style-type: none"><li>Cut down latency from <b>3s to 1.8s</b> in a multi-tier AWS cloud application by optimizing auto-scaling and load balancing through EC2, S3, and SQS, while maintaining <b>99%</b> accuracy in face recognition.</li><li>Built a scalable face recognition system on AWS, securing <b>0.116s</b> response time for <b>1000</b> requests and dynamically scaling to 15 EC2 instances, ensuring efficient resource utilization and cost savings.</li></ul>	
<b>Automated Brochure Generator with GPT-4 and Web Scraping</b>	Jan 2025 - March 2025
<ul style="list-style-type: none"><li>Developed a full-stack <b>MERN</b> application using <b>React.js</b>, <b>Node.js</b>, and <b>MongoDB</b> that leverages <b>GPT-4</b> and web scraping to automatically generate professional company brochures, reducing manual content creation time by <b>80%</b>.</li><li>Engineered a <b>microservices architecture</b> with <b>Python</b> and <b>Express.js</b>, implementing <b>RESTful APIs</b>, user authentication, and a responsive <b>Material-UI</b> frontend, achieving <b>95% accuracy</b> in content extraction and analysis.</li></ul>	
<b>Analysis of Arizona Businesses using Yelp Dataset</b>	August 2024 - December 2024
<ul style="list-style-type: none"><li>Analyzed <b>7M+ entries</b> from Yelp's Arizona dataset using <b>PySpark</b> and <b>Spark SQL</b> to uncover trends in customer engagement, reviews, and business performance.</li><li>Visualized <b>20+ patterns</b> using <b>Matplotlib</b> and <b>Seaborn</b>, highlighting elite reviewer influence and providing actionable recommendations for engagement improvement.</li></ul>	
<b>Image Denoising Using Convolutional Neural Networks</b>	August 2023 - December 2023
<ul style="list-style-type: none"><li>Developed a <b>CNN-based</b> denoising model using <b>U-Net</b>, improving clarity of noisy CIFAR-10 images—applicable in medical imaging, autonomous vehicles, and ML data augmentation.</li><li>Achieved stable convergence at <b>0.0154 MAE loss</b> using adaptive learning rate scheduling, enabling progressive noise reduction across <b>100+ training iterations</b>.</li></ul>	
<b>SharkPhish</b>	January 2023 - May 2023
<ul style="list-style-type: none"><li>Deployed a phishing URL detection app using a <b>Random Forest</b> model with <b>97.47% accuracy</b> and only <b>0.03% false positives</b>, improving user cybersecurity awareness.</li><li>Engineered a feature extraction pipeline analyzing <b>20+ key indicators</b>, achieving <b>97.88% precision</b> and providing an intuitive interface for seamless integration.</li></ul>	