PRIYANKA OJHA

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Education

Arizona State University **Aug 2023 – May 2025**
Master of Science in Computer Science **GPA: 3.9/4.0**

Maharana Pratap University of Agriculture and Technology, India **Aug 2017 – May 2021**
Bachelor of Technology in Computer Science and Engineering **GPA: 3.87/4.0**

Relevant Coursework

Foundations of Algorithms, Data Structures, Distributed Database Systems, Cloud Computing, Software Security, Software Design, Software Verification and Validation Testing, Data Visualization, Data Mining, Statistical Machine Learning, Neural Networks, Compiler Design, Operating Systems, Mobile App Development, Computer Networks, Object Oriented Programming

Technical Skills

Programming Languages: Java, Python, C, C++, JavaScript, TypeScript, Go, SQL, Android, HTML, CSS, PHP
Frameworks: React, Angular, Node.js, Spring Boot, Spring Security, REST API, Microservices, CI/CD, Jenkins, Kafka, Agile
Cloud & Databases: Oracle, Azure, AWS, GCP, Redis, MongoDB, PostgreSQL, DynamoDB, Firebase, MySQL, SQLServer
Platforms: Docker, Kubernetes, Elasticsearch, Spark, Hive, Hadoop, Maven, Tomcat, GIT, TensorFlow, Linux

Work Experience

Software Engineer, TCS Digital, Tata Consultancy Services Ltd. **Aug 2021 – July 2023**
- Developed TCS Cognix, an **intelligent chatbot service** using **MERN stack** (MongoDB, Express.js, React, Node.js) achieving **90% prediction accuracy** and accelarated response time of the chatbot from **10 seconds to 2 seconds**.
- Implemented a resilient API Gateway Service with OAuth2 user authentication system using **Java, Python** and **Spring reducing authentication errors by 85%** across **10+ client projects** within the Intelligent Automation team.
- Optimized **CI/CD** pipelines on **Azure** and built dynamic dashboards with **React, Vue.js** enhancing user engagement.
- Mentored budding developers in FullStack Chatbot Development, User Authentication, Java, Azure, and Spring.

Research Experience

Research Aide, Arizona State University **June 2024 – May 2025**
Software Testing and Data Visualization [AI/ML Models, Python, Selenium, Tableau, Power BI]
- Led testing of a **Gen AI chatbot**, using test automation to **resolve 94% of bugs** and **boost accuracy by 18%.**
- Analyzed client training data to optimize user engagement strategies, resulting in a **22% rise in program revenue.**

Summer Research Intern, IIT Bombay **May 2019 – July 2019**
Face Detection and Recognition System [Neural networks, Python]
- Implemented Haar Cascade Classifier for Face Detection, Eigenfaces, and Scattering Networks for Face Recognition.
- Applied these methodologies on LFW and Yale face datasets, leading to a **remarkable 94% and 95% accuracy.**
- Contributed as **Teaching Associate** in organizing the World Bank - backed 'Active Learning Workshop', with a focus on academic enhancement, and R&D to elevate the quality of technical education in India.

Academic Projects

ConversAI: A Smart AI Chat Assistant | *Azure, JavaScript, Node.js, Express.js, HTML, CSS* **December 2024**
- Developed a **smart AI chatbot** using **Hugging Face**, delivering multi-turn conversations with **90% accuracy**.
- Deployed the chatbot on **Azure** cloud, ensuring scalability and faster responses through a responsive web interface.

TestifyQA - QA Automation Project | *React, Node.js, Express.js, MongoDB, Cypress, Jest, Postman* **October 2024**
- Developed a full-stack bug tracking system with role-based access, dynamic filtering, and REST APIs.
- Automated UI/API tests using Cypress, Jest, and Postman, **improving bug resolution efficiency by 40%**.

Research Paper Classification Using GCNs | *Neural networks, Python, Tensorflow, Keras* **March 2024**
- Implemented Graph Convolution Networks (GCNs) on the Cora dataset, a graph dataset consisting of interconnected scholarly articles via links, to classify scientific papers, **boosting classification accuracy from 73.16% to 83.52%**.

Accolades And Accomplishments

- **Leetcode Milestone Achiever** – Earned **100 Days Badge (2024)** and **50 Days Badge (2024)** by solving algorithmic challenges consistently, showcasing strong problem-solving and coding skills.
- **TCS Gems Star Team Award** – Honored for exceptional contributions to the organization.
- **Winner of TCS Xpedition** – Enterprise-wide business skills competition, selected among 900+ participants.