

PRIYANKA OJHA

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Education

Arizona State University

Master of Science in Computer Science

Aug 2023 – May 2025

GPA: 4.0/4.0

Maharana Pratap University of Agriculture and Technology, India

Bachelor of Technology in Computer Science and Engineering

Aug 2017 – May 2021

GPA: 3.87/4.0

Relevant Coursework

Foundations of Algorithms, Data Structures, Distributed Database Systems, Software Development(SDLC), Cloud Computing, Data Visualization, Data Mining, Fundamentals of Statistical Learning, Neural Networks, Compiler Design, Information Security, Operating Systems, Mobile Application Development, Computer Networks, Object Oriented Programming

Technical Skills

Languages: Java, Python, C, C++, JavaScript, TypeScript, Android, HTML, CSS, PHP, SQL

Frameworks: React, Angular, Node.js, Spring Boot, Spring Security, REST API, Microservices, CI/CD, Jenkins, Kafka, Agile

Databases: Redis, MongoDB, Firebase, MySQL, SQLServer, Postgres

Platforms: Docker, Kubernetes, Elasticsearch, Maven, Tomcat, GIT, Metavision, TensorFlow, Azure, AWS, Linux

Work Experience

Software Engineer

Aug 2021 – July 2023

TCS Digital, Tata Consultancy Services Ltd., India

- Executed the development of TCS Cognix, an **intelligent chatbot service** delivering seamless customer support.
- Achieved **90% accuracy** in predicting disruptions and **accelerated response time from 10 seconds to 2 seconds**.
- Implemented a resilient user authentication framework utilizing the OAuth2 protocol **reducing authentication errors by 85%** across a spectrum of **10+ client projects** within the Intelligent Automation team.
- Empowered budding developers in Chatbot Development, User Authentication, Java, and Spring through mentorship.

Research Experience

Research Aide, Arizona State University

June 2024 – Present

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 95% of bugs** and **boost accuracy by 15%**.
- Analyzed client training data to optimize engagement strategies, resulting in a **20% rise in program revenue**.

Summer Research Intern, IIT Bombay

May 2019 – July 2019

Face Detection and Recognition System [Neural networks, Python]

- Executed 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 'Active Learning Workshop', backed by the World Bank, with a focus on pedagogy, outreach, academic enhancement, and R&D to elevate the quality of technical education in India.

Projects

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%**.
- Analyzed how GCNs utilize the relationships between articles to enhance the accuracy of scientific paper classification.

SilkViser: Visualizing Blockchain Cryptocurrency Data | *JavaScript, D3.js, HTML, CSS, Python*

April 2024

- Designed SilkViser, a dashboard facilitating the exploration of Bitcoin cryptocurrency data through coin glyphs, sankey charts, and choropleth maps, enhancing comprehension of transaction mechanisms and network relay activities.

Student Verification System | *Image Processing, OpenCV, Python, PHP, CSS, Xampp Server*

May 2021

- Created a college e-verification portal with an AI-based attendance system, utilizing facial recognition to record student attendance **reducing manual processing time by 80%** for over 1,000 student records, including background checks.

Accolades And Accomplishments

- Received the **SUN Award** for exemplary service and leadership, recognized by Arizona State University.
- Recipient of the TCS Gems **Star Team Award** in recognition of exceptional contributions to the organization.
- Winner of TCS Xpedition**, an enterprise-wide business skills competition hosted by TCS.