Priyanka Ojha

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Education

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

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, Data Visualization, Data Mining, Fundamentals of Statistical Learning, Knowledge Representation and Reasoning, Neural Networks, Information Security, Operating Systems, Mobile Application Development, Computer Networks, Object Oriented Programming

Technical Skills

Languages: Java, Python, C, C++, JavaScript, Android, HTML, CSS, PHP, SQL
Frameworks: Spring Boot, Spring Security, REST API, JUnit, Mockito, Node.js, D3.js, CI/CD, Microservices
Databases: Redis, MongoDB, Firebase, MySQL, SQLServer, Postgres
Platforms: Docker, Elasticsearch, Maven, Tomcat, GIT, IntelliJ, Metavision, TensorFlow, PyTorch, Azure, AWS

Work Experience

Software Development 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

Project Volunteer, Active Perception Group, ASU **Sept 2023 – Jan 2024**
Hand Gesture Recognition System [Computer Vision, Neural networks, Python, Metavision]

- Developed a neural network model with **96% accuracy on the ASL dataset** for hand gesture recognition.
- Integrated event-based gesture recognition with Metavision SDK, extending capabilities beyond traditional approaches.

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 visualizations like 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

- 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.