

# Rishika Shivanna

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## EDUCATION

**Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science**  
*Master of Science in Computer Science, Artificial Intelligence Track* Dec 2026

**Relevant Coursework:** Data Structures and Algorithms, Database Systems, Machine Learning, Deep Learning, Cybersecurity

## TECHNICAL SKILLS

**Languages:** Python, Java, C, SQL, Javascript, HTML, CSS, C++

**Software & Operating Systems:** Visual Studio IDE, Code, Git, GitHub, Jira, Figma, Power BI, macOS, Linux

**AI/ML & Data Science:** TensorFlow, PyTorch, Scikit-learn, XGBoost, Pandas, NumPy, Matplotlib, Model Evaluation

**Frameworks & Libraries:** Flask, React, Node.js, Tailwind CSS, RESTful APIs, Spring Boot, Angular, XML

**Cloud & DevOps:** AWS (EC2, IAM, S3), GCP (Compute Engine), Docker, CI/CD, Firebase, MongoDB (Atlas)

**Concepts & Methodologies:** Object-Oriented Programming (OOP), Data Structures & Algorithms, Microservices, RBAC

## PROFESSIONAL EXPERIENCE

**Maitra Medtech**, Junior Software Developer | IISc, India

Aug 2024 – Dec 2024

- Strengthened platform security for a healthcare web application by implementing role-based access control (RBAC) and refactoring API endpoints in collaboration with backend engineers.
- Optimized database query execution by analyzing slow queries, rewriting them with focused SELECT statements, and creating strategic indexes, decreasing average response time by 200ms and improving overall platform stability.

**Aarnaq MedTech Private Limited**, Software Developer Intern | IISc, India

Apr 2023 – Jul 2024

- Developed a mobile application for law enforcement that automated field data entry by integrating camera functionality with OCR, cutting average report creation time from 15 minutes to under 5 minutes while minimizing data-entry errors.
- Customized and implemented interactive dashboards for program performance analytics using Firebase and Data Studio, reducing manual reporting requests from 50 to 30 per week with the goal of decision-making for care providers
- Defined standardized data pipelines through BRDs and UML diagrams, reducing ad-hoc database queries from 40 per day to 15 per day and supporting accurate reporting for government compliance audits

**NeuraStim Smartphone**, UI/UX Designer Intern | Delaware, USA / IISc Collaboration

Aug 2023 – Nov 2023

- Designed 6 interactive Figma prototypes for a neuro-health monitoring app, optimizing onboarding and therapy session workflows tested by 20 users, reducing task completion time from 52 seconds to 35 seconds
- Integrated event-logging features in collaboration with developers to capture user interaction data for usability testing, reducing design iteration cycles from 4 days to 3 days
- Partnered with full-stack engineers to build responsive UI components using shared design tokens, ensuring WCAG 2.1 AA compliance and consistent cross-device performance during the pilot rollout.

## PROJECT EXPERIENCE

**Linux Chat Service (C Sockets + Multithreading)** | Independent Project

Sep 2025

- Architected Built a client-server application using TCP/IP socket programming in C, handling concurrent connections with pthreads.
- Managed memory buffers, protected shared resources, and implemented graceful shutdown logic.

**Yelp Business Footfall Prediction** | Independent Project

Aug 2025

- Processed 1.94 million records using Pandas, NumPy to forecast store footfall trends
- Trained Random Forest and XGBoost models using SMOTE to address class imbalance, increasing accuracy from 0.75 to 0.88(AUC-ROC: 0.89)

**Neuva Life Sciences Web Platform** | Individual Project

Jan 2025

- Created a React-based web platform using Vite and ESLint, reducing bundle size from 5MB to 3MB and ensuring responsive performance across devices

## LEADERSHIP EXPERIENCE AND ACHIEVEMENTS

**Super Learner** – McKinsey Forward Program | McKinsey.org

Oct 2025

- Completed Core Skills track focused on leadership, structured problem-solving, and communication excellence, applying these concepts to improve teamwork in technical projects

**Event Coordinator** – 24-Hour State-Level Hackathon | Global Academy of Technology

Jan 2024

- Coordinated a 24-hour hackathon for 150+ student participants by organizing logistics, volunteer roles, and sponsor outreach, driving engagement in software innovation and collaborative problem-solving

**Research Author – IJARSCT Journal Publication** | Global Academy of Technology

Feb 2024

- Conducted research on modern perception systems and authored a peer-reviewed publication, contributing to academic insights in sensor-based technologies and interdisciplinary engineering