YUTIKA KIRAN VORA

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EDUCATION

Master of Science | Information Technology **May 2025**
Arizona State University, USA **GPA: 4.00/4.00**
Courses Taken: Principles of Computer & Information Technology Architecture, Advance Information Systems Security, Information Systems Development, Advance Database Management System, Advanced Big Data Analytics/AI, Data Visualization & Reporting for IT, NLP, AWS Cloud Architecture

Bachelor of Engineering | Information Technology **July 2022**
University of Pune, India **GPA: 4.00/4.00**

TECHNICAL SKILLS

- Programming Languages: Python, Java, HTML/CSS, React JS, JavaScript, SQL
- Tools: Tableau, Git, MS Excel, MS Word, MySQL, Microsoft SSMS, MS PowerPoint, Power BI, Jupyter Notebook, Anaconda, JIRA
- Machine Learning: Supervised/Unsupervised Learning, NLP, Pipeline, Classification, Clustering, Regression.
- Cloud & Version Control: AWS, Google Cloud, GitHub
- Data Mining: Python - NumPy, SciPy, Pandas, Matplotlib, Scikit-learn, NLTK, Bokeh etc.
- Frameworks: Spring, SpringBoot with Hibernate

PROFESSIONAL EXPERIENCE

Learning Assistant (Engineering Tutor) **July 2024 - Present**
Ira A. Fulton School of Engineering-Arizona State University **Arizona, USA**
- Tutoring over 150 students across four core courses: Data Structures and Algorithms, Principles of Programming Languages, Software Engineering, and Foundations of Data Visualization.
- Mentoring students in grasping complex concepts in Object-Oriented Programming and Data Structures, improving average student grades by 15%.
- Developing personalized learning plans and resources, resulting in a 25% increase in student engagement and course completion rates.
- Lead group study sessions for 20 students across 12 workshops, offering regular feedback and assessments to increase collaborative learning, problem-solving skills, and help students identify strengths and areas for improvement.

Student Success Office Data Analyst **January 2024 - Present**
Ira A. Fulton School of Engineering-Arizona State University **Arizona, USA**
- Analyzing event attendance data using Python and Tableau, leading to a 20% increase in participation for FURI, GCSP and EPICS.
- Developing automated reporting dashboards using Tableau, delivering real-time insights to stakeholders and senior management. Conducted data cleaning and preprocessing in Python, ensuring 95% data accuracy and quality.
- Utilizing SQL for data extraction and manipulation from relational databases for event data.

Software Engineer **January 2023 - August 2023**
Synechron Technologies **Pune, India**
- Engineered a cloud-based Banking System for Loan applications with Spring Boot and Hibernate, enhancing efficiency.
- Led a team in building a Customer Portal leveraging AWS/GCP, HTML, CSS, JS, and React.js, boosting UX by 25%.
- Implemented a cloud-hosted ticketing system for 24/7 monitoring, cutting issue resolution time by 40%. Proficient in cloud-native development with AWS Lambda, S3, or Google Cloud Functions.
- Incorporated Git, JIRA, JUnit, and Mockito for high-quality code management and testing.
- Demonstrated proficiency in Core Java, Spring/Spring Boot, Hibernate, JDBC Connectivity, JSP, Servlets, HTML/CSS, JavaScript, React.js, and DSA.

Software Engineer **January 2022 - December 2022**
Einfochips Private Limited **Pune, India**
- Completed training in cloud technologies such as AWS and Google Cloud Platform alongside Java, Spring Boot, React.js, UI/UX Design, Responsive Web Design, RESTful API Integration, Debugging, Troubleshooting, Code Review, and SQL.
- Designed and constructed responsive web applications hosted on the cloud using React.js, increasing performance by 20%.
- Utilized cloud-based back-end services with Spring Boot and Hibernate, ensuring seamless integration and scalability.
- Collaborated within cross-functional Agile teams, accelerating project delivery by 15% and enhancing team productivity.
- Implemented cloud-based DevOps practices, including CI/CD pipelines, for consistent deployments, ensuring scalability and reliability. Conducted testing and debugging with JUnit, reducing bugs by 30%.

ACADEMIC PROJECTS

Virtual Mirror using Neural Networks **October 2023 - December 2023**
- Deployed computer modeling and image processing algorithms, building neural network with 90% accuracy; applied image processing to commercial software, customizing features as per client-requirements.
- Constructed a recommender system for clothing selection by performing rigorous data cleaning and analyzing real-world data with 95% accuracy. Leveraging EDA, Feature Engineering, Recommendations, Feature Importance, Similarity scores.
- Leveraged similarity scores from Cosine, Hamming, and Jaccard Similarity to recommend the top 5 clothing items. Prioritized feature weighting and identified Cosine and Jaccard as the most accurate metrics.

Inventory Management System **May 2023 - August 2023**
- Created an Inventory Management System for a retail client, leveraging cloud-based services like AWS or Google Cloud Platform for efficient data management and processing.
- Constructed back-end services deploying Django and hosted on cloud databases like Amazon RDS or Google Cloud SQL, ensuring efficient data management and processing.
- Accomplished a user-friendly front-end interface hosted on the cloud with Bootstrap, boosting usability.
- Conducted thorough testing and validation to ensure 75% system reliability.

E-commerce Website Optimization **January 2022 - July 2022**
- Boosted an e-commerce platform presented on AWS EC2 or Google Compute Engine, reducing page load times by 35% and promoting overall performance.
- Refactored codebase for improved scalability and performance by utilizing cloud-native services, resulting in a 35% reduction in page load times and significant improvements in overall site performance.
- Implemented server-side enhancements with AWS Lambda or Google Cloud Functions to manage heightened traffic.
- Executed performance testing and load balancing, ensuring site stability increase by 15% on cloud infrastructure and enabling seamless user experiences even during peak traffic times.

Clothing Recommendation System for E-commerce **July 2021 - December 2021**
- Developed a collaborative filtering recommendation system with user behavior data and item interactions to restructure product recommendations, resulting in a 20% increase in customer engagement and sales conversions.
- Employed matrix factorization techniques to improve recommendation accuracy, achieving a 25% boost in precision and recall for user-item interactions.
- Deployed the system deploying Flask and integrated it with the existing e-commerce platform.

IT CERTIFICATIONS

Python For Data Science - Cleared With 64% Marks NPTEL IIT MADRAS)
Machine Learning with Python - Bharat Soft Solutions, Pune
Introduction To Programming Using Python - Microsoft Technology Associate, Pune.