

# Reena Bardeskar

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## SUMMARY OF QUALIFICATIONS

- Experienced Computer Science professional skilled in building and optimizing ETL pipelines, data models, and scalable solutions using SQL, Python, and machine learning.
- Proficient in data warehousing concepts, including star/snowflake schemas and performance tuning.
- Certified in AWS and Azure fundamentals, with hands-on experience in multi-cloud governance, performance optimization, and reporting tools like PowerBI.

## TECHNICAL SKILLS

- **Programming Languages & Frameworks:** C, C++, Java, Python, React, Spring Boot, Django
- **Operating Systems & Cloud Platforms:** Windows 10, Linux, AWS, Azure
- **Databases:** MySQL, MongoDB, DynamoDB
- **Software & Tools:** MS Office, PowerBI
- **Scripting Languages:** Terraform, Shell

## CERTIFICATIONS

- AWS Certified Cloud Practitioner (CLF – CO2)
- Microsoft Azure Fundamentals (AZ 900)

## WORK EXPERIENCE

### Student Administrative & IT Support Assistant

Georgia, USA

University of Georgia– Auxiliary Services

Jan 25 – May 25

- Worked under the Assistant Director of IT to support Level 2 networking tasks, including VLAN port tracing, endpoint testing, and network troubleshooting across campus facilities.
- Gained hands-on experience in technical issue resolution, user access setup, and documentation while balancing customer service with back-end support operations.
- Provided front desk support at Bolton Dining Hall, assisting students with account registration, resolving access issues, and onboarding them to the university portal and MorphoWave biometric scanner system.

### Graduate Teaching Assistant and Lab Instructor

Georgia, USA

University of Georgia, Franklin College of Arts & Sciences

Jan 24 – Jul 24

- Taught systems programming in C/C++, including topics such as memory allocation, process control, and threading.
- Mentored 100+ students on low-level debugging and algorithm implementation, improving code correctness and runtime performance.
- Automated grading using Bash and file I/O, reducing manual review time by 80%.

### Software Engineer

Pune, India

Persistent Systems Ltd.

Jul 22 – Jul 23

- Designed and automated multi-cloud infrastructure (AWS, Azure) using Terraform; developed scripting logic for provisioning and monitoring cloud data assets.
- Created PowerBI dashboards using client-specific data models, aligning with data analytics requirements and executive reporting needs.
- Worked with CloudWatch, GuardDuty, and Inspector to support data visibility and operational diagnostics across distributed environments.
- Collaborated with cross-functional teams to integrate infrastructure insights into BI workflows and performance optimization.

### Software Engineering Intern

Pune, India

Persistent Systems Ltd.

Feb 22 – Jul 22

- Spearheaded the development of a resource booking platform for internal hot-desking, reducing booking collisions by 23%.
- Designed backend with Java Spring Boot, incorporating concurrent thread-safe handlers for desk assignment under dynamic load.
- Built SQL-based logic for reservation conflict resolution, simulating resource scheduling under constraints.

- Recognized with 'Bravo Award' for top 1% project performance across intern cohort.

## PROJECT EXPERIENCE

### Sales Analytics with PowerBI and AWS Redshift

Jan 25 – Feb 25

- Built a sales reporting solution by loading structured data into AWS Redshift, applying SQL-based transformations and schema design.
- Designed a PowerBI dashboard to track revenue trends, top-performing regions, and product sales breakdowns.
- Focused on query efficiency and clean data modeling to ensure accurate, real-time insights for decision-making.

### Recidivism Risk Prediction using COMPAS Dataset

Sept 24 – Dec 24

- Built an XGBoost model and applied SHAP and LIME for model interpretability; reduced bias using Fairlearn library.
- Optimized pipeline execution by tuning feature selection and implementing lightweight inference routines in Python.
- Emphasized data pipeline efficiency and transparency for high-stakes predictive systems.

### Deep Learning Model Optimization for Efficient CNNs

Jul 24 – Nov 24

- Implemented data preprocessing and transformation logic using PyTorch and NumPy to optimize deep learning models.
- Simulated pipeline execution improvements by pruning model structure, reducing size by 80% with minimal loss in accuracy.
- Applied YAML-based modular configuration to streamline model management and deployment.

### Satellite Image Classification using Deep Learning Models

Jan 24 – May 24

Dataset used: SAT-4, SAT-6

- Processed and transformed raw image data for deep learning pipelines using CNN, DBN, and DenseNet.
- Achieved over 98% classification accuracy with optimized architecture and parameter tuning.
- Applied batch preprocessing, data augmentation, and latency-aware prediction logic.

### ML-Driven Payout Monitoring and Reporting

Sept 23- Nov 23

- Developed a pipeline to forecast payout anomalies using LightGBM and time-series features on historical earnings.
- Automated data ingestion with SQL and Airflow; visualized metrics and risk scores in PowerBI for program leads.

## EDUCATION

### University of Georgia, Franklin College of Arts & Sciences

Athens, GA

#### Master of Science in Computer Science

May 2025

- Relevant Courses: Algorithms, Database Management Systems, Cloud Computing, Data Analytics, Computer Vision, Distributed Computing Systems, Software Engineering, Trustworthy Machine Learning.
- GPA: 3.94/4.00

### University of Pune, Dr. D. Y. Patil Institute of Technology

Pune, India

#### Bachelor of Science in Computer Science

May 2022

- GPA: 3.84/4.00
- Honors Degree in Artificial Intelligence and Machine Learning

## HONORS & INVOLVEMENT

- Served as a Core Committee Head for college clubs (Computer Society of India and ACES), managing the organization of inter-college fests and state-level student conventions, attracting over 4,000 participants. Responsibilities included event planning, website development, and hackathon execution.
- Participated in Global Talent Track Seminars focused on enhancing corporate readiness and employability skills.
- Co-authored and published a survey paper titled "EduWeb: A Virtual Classroom" in the International Research Journal of Modernization in Engineering Technology and Science (IRJMETS) in May 2022.