Radhika Ganesh

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EDUCATION

Indiana University Bloomington, United States **August 2023 – May 2025**
Master of Science in Computer Science *CGPA: 3.86/4*
Courses: Applied Machine Learning, Advanced Database Concepts, Data Mining, Elements of AI, Information Visualization

Sardar Patel College of Engineering, Mumbai, India **August 2017 – May 2021**
Bachelor of Technology in Electrical Engineering *CGPA: 9.46/10*
Ranked 3rd in Electrical Department based on overall CGPA after 8 semesters of undergraduate studies
Relevant Courses: Image Processing, Artificial Intelligence, Numerical Techniques and Programming (MATLAB)

TECHNICAL SKILLS

- **Data Analysis Tools:** SAS, AWS QuickSight, MATLAB, Power BI (DAX, Power Query/M), Tableau
- **Statistical Analysis:** Hypothesis Testing, Regression Analysis, Time Series Analysis, Bayesian Statistics, A/B Testing
- **Programming languages:** Python, SAS (Statistical Analysis System), C/C++, SQL, R
- **Databases:** SQL Server, MySQL, NoSQL (MongoDB), PostgreSQL
- **ML libraries:** Keras, Matplotlib, NLTK, NumPy, Pandas, Scikit, Seaborn, TensorFlow, Scipy, OpenCV
- **Others:** Git, GitHub Copilot, Docker, Jira, Snowflake, DBT, Confluence, Bash, Postman, pgAdmin, Agile Methodology
- **Courses and Certifications:** Deep Learning Specialization, Python, Machine Learning, Data Science

PROFESSIONAL EXPERIENCE

Data Engineer & Analyst | *Project 990, Bloomington, Indiana, United States* **February 2025 – Present**
- Engineered ETL pipelines using Alteryx, Python, MySQL, and Snowflake, orchestrated with DBT, to process 100,000+ IRS Form 990 tax filings and Business Master File records for downstream analysis.
- Extracted and classified 1,000+ mission statements into 10+ philanthropic categories using RoBERTa, enhancing data accuracy.
- Built 5+ interactive data visualizations and dashboards using Tableau and AWS QuickSight, providing insights into grant distributions, philanthropic impact, and trends across organizations in the sector.

Software Engineering Intern - Data Solutions | *SafeSpace, Bloomington, Indiana, United States* **June 2024 – December 2024**
Tools: Python, SQL, Power BI, Tableau, MS Excel
- Analyzed user interaction data from the Explore page and social features using SQL and Python, identifying engagement trends that led to a 10% expected increase in user retention.
- Devised 7+ API endpoints in Django to collect and store structured and unstructured data (images, videos, audio) for sentiment analysis and behavioral insights.
- Created 5+ interactive dashboards using Power BI and Tableau, visualizing journal usage patterns and media content trends to assist in data-driven feature enhancements.
- Defined A/B testing strategies with cross-functional teams to optimize recommendation algorithms and enhance user personalization.

Data Analyst - Credit Risk | *Axis Bank, Mumbai, India* **August 2021 – June 2023**
Tools: SAS Enterprise Guide (SAS EG), Python, SQL, Power BI, Tableau, SAS Viya, SAS Enterprise Miner, MS Excel
- Leveraged a diverse toolkit encompassing Python, SAS EG and SQL to extract pivotal risk metrics across 5 loan categories and crafted informative visualizations using SAS Viya, Tableau and Power BI for improved decision-making.
- Automated comprehensive risk dashboard generation to support risk management initiatives of top management that saved 48 hours of manual labor per month, improving KPIs for operational efficiency.
- Employed decision trees for multivariate analysis, guiding loan approval policy stakeholders in making data-driven decisions for Auto Loans, leading to a 15% decrease in default rates and a 10% increase in approval rates.
- Formulated and executed an application score cutoff strategy for Two-Wheeler Loans, cutting the default rate by 30%.

PROJECTS

Occupation Reporting Tool | *Microsoft Power BI*
- Crafted a Power BI dashboard with O*NET and BLS data, featuring 10+ interactive visualizations to analyze 1,000+ occupations and support career exploration for students and job seekers.
- Designed 3+ report pages with slicers and filters to explore job families, education requirements, salary distributions, and employment trends across 50 states and 380+ metro areas.

Home Credit Default Risk | *Python, PyTorch Lightning*
- Achieved 91.94% accuracy in predicting loan defaults using a logistic regression baseline, and enhanced predictive performance with Random Forest, XGBoost, and AdaBoost models (72.78% validation accuracy, 72.43% test accuracy, 74.93% validation AUC).
- Developed and optimized Multi-Layer Perceptron models using PyTorch Lightning, applying hyperparameter tuning and model evaluation techniques to further improve classification accuracy.

IBM HR Analytics Tableau Dashboard | *Tableau*
- Constructed an interactive IBM HR Analytics Tableau Dashboard visualizing key metrics like gender distribution, average age, and monthly income across departments and job roles for over 1,400 employees.
- Deployed Tableau Desktop to create and refine 8 detailed visualizations, including pie charts and line graphs, to provide comprehensive insights into employee demographics and gender diversity across departments.