

PRAVEEN GANAPATHY RAVI

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Education

University of Massachusetts Dartmouth <i>Master of Science in Data Science, GPA: 3.96</i>	Jan 2024 - Jan 2026 <i>Dartmouth, MA</i>
<ul style="list-style-type: none">• Coursework: Advanced Data Mining, Artificial Intelligence, Big Data Analytics, High Performance Scientific Computing, Database Design, Advanced Machine Learning, Advanced Mathematical Statistics, Visual Analytics, Statistical Analysis.• Academic Role: Graduate Grader for High Performance Scientific Computing and Introduction to Scientific Programming.	

Skills

Programming Languages: Python, SQL, R, JavaScript, PHP, HTML/CSS
Data Engineering: ETL Pipeline Development, Apache Airflow, Data Warehousing, Data Processing, Data Migration
Data Analysis: Exploratory Data Analysis, Statistical Analysis, Hypothesis Testing, Predictive Modeling
Cloud & DevOps: AWS (EC2, S3), Docker, CI/CD, System Scalability, High Availability
Databases: PostgreSQL, SQLite, MySQL, Database Design, Query Optimization
Data Visualization: Power BI, Tableau, Streamlit, Matplotlib, Seaborn, D3.js
Libraries & Frameworks: Pandas, NumPy, Django, Streamlit, Next.js, Symfony
Tools: Git, Jupyter Notebook, VS Code, Excel, Shell Scripting

Work Experience

University of Massachusetts Dartmouth - Career Center <i>Career Ambassador: Data & Reporting Specialist</i>	Sep 2024 – Present <i>Dartmouth, MA</i>
<ul style="list-style-type: none">• Transformed recruitment data into actionable insights, creating interactive visualizations for 50+ employers, increasing student engagement at the Job Internship Expo by 35%.• Developed Power BI dashboards reducing reporting time by 60%, enabling data-driven decision-making for career services initiatives.• Implemented automated data collection using Python, improving data accuracy by 25% and eliminating 10+ hours of manual work monthly.	
Infosys Limited <i>Data Engineer, Backend Developer (TalkTalk Telecom Group Ltd.)</i>	Jun 2021 – Jan 2024 <i>Manchester, UK (Remote)</i>
<ul style="list-style-type: none">• Architected ETL processes migrating SQL Azure VM databases to Azure Managed Instances with zero data loss, improving system performance by 30%.• Reduced deployment time by 40% by implementing CI/CD pipelines for ETL workflows utilizing Java, Python, and PHP.• Led Symphony and Zend framework integration for SEO domain migration, maintaining 99.8% data integrity across 1M+ records.• Recognized with Infosys INSTA Awards (Sep 2023, Dec 2022) for track management and project contributions saving \$50K in operational costs.	
Wipro <i>Data Engineer</i>	Feb 2020 – Jun 2021 <i>Chennai, India</i>
<ul style="list-style-type: none">• Developed high-performance web modules using Python, improving application response time by 20% through rigorous testing and optimization.• Contributed to Wipro's "CRS-Datcenter" learning module, expanding technical knowledge in data center operations supporting 15+ enterprise clients.• Implemented automated testing protocols, reducing bug detection time by 35% and improving code quality metrics by 28%.	

Project Experience

Bank Marketing Analysis · Python, Machine Learning · Data Science	April 2024 - May 2024
<ul style="list-style-type: none">• Engineered ML models achieving 91% accuracy on 45,000+ records, identifying 8 key factors that increased conversion rates by 25%. Developed Streamlit dashboard processing 3 years of data in seconds, reducing analysis time by 70% and enabling real-time decision support.	
Library Management System · Django, SQLite · Database Design	June 2024 - July 2024
<ul style="list-style-type: none">• Built comprehensive web system managing 5,000+ books, reducing registration time by 30% and error rates by 40%.• Automated data population via Python scripts, eliminating 80% of manual entry while maintaining 100% data integrity.	
Flight Analysis Project · Apache Airflow, Docker · Data Engineering	Oct 2024 - Nov 2024
<ul style="list-style-type: none">• Engineered data pipeline processing 500,000+ daily flight records across 10,000+ routes, reducing ETL latency by 40%.• Containerized solution with Docker on AWS, cutting infrastructure costs by 30% while handling 1,200+ daily queries with 99.9% uptime.	
SimuChat Hackathon Project · Next.js, AI · AI Application Development	Nov 2024 - Dec 2024
<ul style="list-style-type: none">• Created AI-driven RPG with 36 characters across 12 game modes, processing 15,000+ interactions with 95% accuracy.• Implemented dynamic scoring system analyzing 25+ conversation patterns, winning 2 hackathon prizes for innovation and technical execution.	

Certifications

Google Cloud Engineer Data for Predictive Modeling with BigQuery ML · Infosys Certified MySQL Associate · Infosys Certified Python Programmer · Coursera Data Science Methodology · Infosys Global Agile Developer · Responsive Web Design (freeCodeCamp) · The Python Programmer Bootcamp (365 Data Science)