Anupama Bhatta

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EDUCATION

University of Michigan, Ann Arbor, MI　　　　　　　　　　　　　　　　　　　　　　**May 2025**
Master of Science in Information, Big Data Analytics | GPA: 3.9/4.0
Coursework: Statistics and Data Analysis, Programming and Networks, Git, SQL & Databases, Data Manipulation and Information Visualization, Data Mining, Applied Data Science & Machine Learning, Natural Language Processing (NLP)
Affiliations: School of Information Master's Association (SIMA) – *Member*

Wesleyan College, Macon, GA　　　　　　　　　　　　　　　　　　　　　　　　　　**May 2020**
Bachelor of Arts in Applied Data Analysis, Minor in Economics | President's Scholar | Magna Cum Laude
Coursework: Linear Algebra, Probability Theory, Statistical Methods, Computer Science and Programming, Data Analysis, Algorithms, Optimization, Econometrics, Web Development, Digital Culture
Affiliations: Girls Who Code WesCo College Loop – *Founder & President*, AXIS: The International Students' Club – *President*

SKILLS

Programming Languages: Python, R, SQL, JavaScript, Java
ML & Analytics: pandas, NumPy, scikit-learn, XGBoost, PyTorch, TensorFlow, NLTK, Spark, PySpark, AWS, Hadoop, LangChain
Data Visualization & Databases: Excel, Tableau, Power BI, Looker Studio, Matplotlib, Plotly, Altair, MySQL, MongoDB, Snowflake
Development Tools: Git, GitHub, VS Code, PyCharm, DataGrip, Jupyter, Docker, React, Next.js
Certifications: Google Data Analytics Professional Certificate, Advanced Google Analytics Certificate

EXPERIENCE

University of Michigan, Ann Arbor, MI
Graduate Teaching Assistant　　　　　　　　　　　　　　　　　　　　**August 2023 – May 2025**

Courses Taught*:*　　　　- *SI 568:* **Becoming a Data Scientist** *(January 2025 – May 2025)*
　　　　　　　　　　　　- *SI 506:* **Programming I** *(January 2024 – December 2024)*
　　　　　　　　　　　　- *SI 325:* **Mathematics for Information Analysis** *(August 2023 – December 2023)*

- **Designed and developed Python-based course materials** for nearly 500 students across three courses in areas of mathematical analysis, programming fundamentals, and applied data science, creating practical exercises and providing constructive feedback to foster student learning and proficiency in statistical modeling, data manipulation, and machine learning applications.
- **Enhanced curriculum effectiveness** by maintaining course infrastructure through Git version control and collaborating with faculty to incorporate industry-standard tools for data processing, modeling, and visualization, including pandas, scikit-learn, and Tableau.
- **Provided hands-on technical support** through in-depth code reviews and real-time assistance via dedicated Slack channels and office hours, helping students debug data pipelines, optimize solutions, and build confidence in solving complex analytical problems.

Information Visualization Intern　　　　　　　　　　　　　　　　　　**May 2024 – August 2024**

- **Leveraged JavaScript and Timeline JS** to build and deploy a responsive social media design evolution timeline, transforming complex data across multiple platforms into an intuitive visual narrative designed for clarity across varying expertise levels.
- **Integrated React components with API-retrieved JSON timeline data** through close collaboration with design and backend teams, implementing efficient data fetch protocols that ensured seamless rendering of the timeline on the project website.
- **Optimized visualization performance and accessibility** through responsive interface refinements derived from iterative user testing, making complex timeline elements interpretable across both desktop and mobile devices.

Loyal Health, Atlanta, GA
Senior Solutions Analyst　　　　　　　　　　　　　　　　　　　　　　**May 2022 – May 2023**

- **Implemented bi-directional API integrations** using Python to sync client healthcare data between enterprise source-of-truth SQL database and major search engines (Google, Bing), ensuring 99% data accuracy across multiple third-party listing platforms.
- **Led a dynamic data operations team**, functioning as the liaison between technical teams and clients to gather requirements and deliver feedback, while fostering team success through structured check-ins, priority alignment, and collaborative goal setting.
- **Spearheaded SEO initiatives** using Google Analytics, keyword optimization, and industry research to improve clients' online presence across healthcare platforms, enhancing patient access to quality care through accurate provider and location information.

Solutions Analyst　　　　　　　　　　　　　　　　　　　　　　　　　**August 2020 – April 2022**

- **Developed automated validation protocols** including schema verification, duplicate detection, and cross-platform integrity checks using SQL queries for 3000+ healthcare providers and locations, reducing system errors by 75% across integration environments.
- **Built interactive Looker Studio dashboards** to generate monthly reports tracking key Google Business Profile performance metrics, providing visibility that streamlined data integration workflows through identification and resolution of pipeline bottlenecks.
- **Created solutions for healthcare information gaps** through cross-functional collaboration with clients and internal teams, implementing integrated mapping with geocentric search features, resulting in 30% higher engagement rates.