Anshul Sadh-Gauri

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Education

BS Honors in Computer Science — *University of Massachusetts, Amherst* ⟶ Sep 2022 - May 2025
- **GPA**: 3.9 out of 4.0; Enrolled in Commonwealth Honors College
- **Honors**: Phi Kappa Phi Certificate of Outstanding Achievement, Data Science Scholarship, Chancellor's Award, Dean's List
- **Clubs**: Machine Learning Club, Data Science Club, Minutemen Alternative Investment Fund - Quant Arm

Research

Publication: Sadh-Gauri, A., & Higgins-D'Alessandro, A. (2024). Effect of a Peer-led Meditation Club on Adolescents' Well-being, Empathy, and Compassion. *Psychology of Consciousness: Theory, Research, and Practice*.

Honors Thesis: Deforestation Detection With Satellite Image Segmentation Using Transformer Architecture

Work Experience

Spectrum (Charter Communications) — *Analyst Intern* ⟶ May 2024 - Aug 2024
- Built customer segmentation models with ensemble techniques. Presented cluster insights with data visualizations.
- Automated report generation and email distribution with Pega webhooks, Python scripts, and AWS Lambda.
- Presented a capstone project on a Small Language Model with RAG to improve accuracy for real-time queries.
- Developed an interactive dashboard to showcase customer journey and segment-specific performance.

Data Square — *Data Scientist Intern* ⟶ May 2022 - Apr 2024
- Enabled a 25% increase in customer response rates through end-to-end big data ML model implementation.
- Built high-quality data pipelines by extracting, cleansing, aggregating, and preparing data with SQL and Python scripts.
- Leveraged machine learning and statistical methods to build segmentation and predictive models for diverse sectors.
- Optimized performance by testing regression, random forest, gradient boosting, and ensemble methods.
- Presented model results, key takeaways, and marketing recommendations with robust data visualizations.
  Full-time: Summer Session 2022 & 2023; Winter Session 2023 & 2024.

Jacks Realty — *Analyst Intern* ⟶ Mar 2022 - Apr 2022
- Identified real-estate investment prospects through market research, reporting, and pricing analytics.

Projects

Equity Portfolio Optimization
- Engineered an equity portfolio system leveraging mean reversion, statistical arbitrage, and deep neural networks.

Music Popularity Analytics
- Identified music popularity predictors with PAM, K-means, and regression in R; presented findings visually.

Piano Music Generator
- Developed a music generation system using a Bidirectional LSTM Recurrent Neural Network in TensorFlow.

Full-Stack Fitness Tracker
- Built a dynamic web application with JavaScript, SQL, HTML/CSS, and REST APIs, allowing users to manage workouts.

Skills and Experience Highlights

Languages and Databases: Python, R, JavaScript, Java; Oracle, Snowflake, PostgreSQL, MS SQL
Technologies: AWS (Lambda, EC2, ECR, Cloud9), Docker, Git, H2O, Azure, Scikit-learn, TensorFlow, SAS
Data Management: CRM, Data Integration, Data Cleansing, Data Aggregation, Data Preparation, Data Pipelines
Data Science: Statistical Analysis, Predictive Modeling, Machine Learning, Image Segmentation, Small Language Models
Data Visualization: MS Office, Google Workspace, Canva, Tableau, Power BI, Excel, LaTeX
Industry Experience: Entertainment, Financial Services, Healthcare, Non-Profit, Retail, Real Estate, Hi-Tech, Telecom
Application Areas: Marketing, Customer Service, Operations, Finance, Research
Personal Interests: Meditation, Working Out, Basketball, Piano