Anulekha Boddu

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OVERVIEW

Data Scientist with 3 years of experience turning data into actionable insights and solving complex problems. Holds two Master's degrees in Economics (MSc) and Data Analytics (MSc), with a solid foundation in both statistical analysis and machine learning algorithms and database management. Proficient in building and deploying machine learning models and recommendation systems in Python, creating dynamic dashboards with Tableau and Power BI, and optimizing workflows and large datasets using SQL. Skilled at designing automated pipelines to streamline processes, improve efficiency, and support data-driven decision-making. Passionate about leveraging data to drive business impact and uncover meaningful insights.

RELEVANT WORK EXPERIENCE

Mirra Healthcare **Tampa, FL, US**
Lead Business Analyst *November 2023 - Current*

- Automated manual Excel reporting processes by designing and implementing python-based pipelines, reducing report generation time by 75% and significantly improving accuracy, enabling the team to refocus on value-add data analysis
- Leveraged SQL to develop a comprehensive reporting system for utilization management, identifying over $1M in potential annual cost savings by analyzing service usage and predicting cost trends, directly inputting executive strategy
- Worked with client executives to perform gap analysis in existing medical reporting, leading to the restructuring or refining of a KPI dashboard with over 20 graphs
- Developed complex SQL stored procedures and scripts optimizing data transformation and reporting processes by over 60%, improving performance for end physicians and analysts
- Facilitated agile ceremonies such as sprint planning, retrospectives, and daily stand-ups, improving collaboration and transparency between business and tech teams
- Owned and prioritized a product backlog of 30+ user stories, aligning roadmap deliverables with strategic business goals and achieving a 95% sprint completion rate across multiple development cycles

Piql **Oslo, Norway**
Data Analyst *January 2021 - December 2021*

- Combined web scraping techniques and data analysis libraries in python to identify patterns, resulting in the identification of new business ventures that secured over $100k in funding
- Implemented A/B testing on the company's data collection website, analyzing key performance indicators (KPI) such as visits via Google Analytics, leading to a 15% increase in user retention
- Extracted and analyzed multi-source data via SQL, uncovering insights that informed executive strategy and drove $1.2M in value
- Contributed to the successful completion of 5 sprints through collaborative efforts, consistently delivering timely results to ensure quality product development

EY **New Delhi, India**
Business Intelligence Consultant Intern *June 2018 - August 2018*

- Created 4 sector reports with market analysis using Excel for Ministry of Commerce to increase foreign direct investment in India
- Developed dashboards of 5+ latest statistics about development projects in different sectors to provide key performance metrics
- Contacted 50+ companies with the sales team to increase investment interest in the logistics sector for the State of Assam in India
- Advised clients on how to maximize opportunities and minimize risks related to mergers and acquisitions and provided recommendations in the context of valuation and deal structuring alternatives

Institute of Economic Growth **New Delhi, India**
Research Assistant *June 2017 - July 2017*

- Led social science research on India's urban and rural expenditure data using time series regression, uncovering 10+ patterns and trends that provided crucial insights into the country's economic dynamics
- Conducted economic research by comparing India's growth in Income Elasticity, and GDP to leading economies such as China, Japan, UK, and Brazil, identifying areas for potential improvement and benchmarking India's performance
- Employed data visualization techniques to present research findings on India's economic performance to senior researchers and government officials, resulting in increased awareness of key challenges and opportunities for policymaking

EDUCATION

The George Washington University, School of Engineering & Applied Science **Washington D.C., US**
Master of Science in Data Analytics (Honors) | GPA: 3.85/4 *August 2021 - June 2023*

- Machine Learning, Algorithms, Database Management, Data Analysis for Engineers, Big Data, Data Science Foundation

The University of Surrey **Guildford, UK**
Master of Science in Economics (Honors) | GPA: 4/4 *September 2019 - September 2020*
- Advanced Econometrics, Advanced Microeconomics, Advanced Macroeconomics, International Finance, Statistics

Brunel University London **London, UK**
Bachelor of Science in Economics (Honors) | GPA: 3.75/4 *September 2016 - June 2019*
- Mathematical Economics, Money and Banking, Accounting, Further Econometrics, Financial Markets, Calculus, Linear Algebra

TECHNICAL SKILLS

Database management, SQL (MySQL, SSMS), NoSQL (MongoDB), Microsoft Azure, Python, Pandas, R, Data visualization, Tableau, Power BI, Matplotlib, Seaborn, Machine learning and Artificial Intelligence (ML/AI), Random Forest, SVM, Neural Networks, Deep Learning, Statistical Modeling, Hypothesis Testing, Regression, Clustering, Time Series, MATLAB, ETL

RESEARCH PROJECTS

- Movie Success Prediction: Built linear and non-linear regression models to predict movie revenue based on different movie features. Performed extensive feature engineering and utilized web scraping (BeautifulSoup) to enrich the dataset with additional movie metadata.
- The Phillips Curve: Analyzed the relationship between unemployment and inflation using time-series regression (MATLAB). Incorporated macroeconomic data to assess the validity of the Phillips Curve over different time periods.
- Categorize Music Using Machine Learning: Developed machine learning models using k-Nearest Neighbors (k-NN) and clustering algorithms (K-means) to automatically classify Spotify liked songs into playlists. Leveraged supervised and unsupervised learning techniques to identify patterns in audio features such as tempo, energy, and acousticness.
- Movie Recommendation System: Designed a personalized movie recommender system using the BERT model and deep learning (TensorFlow). Processed movie plot summaries and reviews with Natural Language Processing (NLP) techniques to generate semantic embeddings for improved recommendations.
- Impact of FDI on Economic Growth: Studied the relationship between FDI and economic growth using panel GMM modeling using R.

CERTIFICATIONS

- Agile Project Management (2023)**:** Coursera by Google
- Python for Software Engineering (2023): Udemy

LANGUAGES

- English (Native), Hindi (Native), Telugu (Native), Norwegian (Conversational), French (Conversational), Mandarin (Basic), Spanish (Basic)