Nitish Belagali

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EDUCATION

Northeastern University, Boston, MA   **May 2025 (Expected)**
Master of Science in Information Systems   **3.7 GPA**
Coursework: Application Engineering and Development, **Data Management and Database Design**, **Data Science and Machine Learning Systems Engineering**, **Designing Advanced Data Architectures for Business Intelligence**

KLE Technological University, India   **Aug 2020**
Bachelor of Engineering in Computer Science and Engineering
Minor Program in Computer Science
Coursework: Statistics, Big Data and Data science, Engineering Mathematics, Probability, Machine Learning, Database Management Systems, Object Oriented Programming

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, Groovy
Business intelligence: Tableau, PowerBI, Alteryx, Data Pipelines
Analytical Techniques: Uni/Bivariate Analysis, AB testing, DAX, Hypothesis testing, t-test, Chi-squared
Statistical Techniques: Regression, Classification, Clustering, A/B tests
Database Systems: SQL, MySQL, PostgreSQL, JDBC, MS Azure SQL
Tools and Services: GitHub, Eclipse, JIRA, Advanced proficiency in Excel and word.
Libraries / Frameworks: Pandas, NumPy, Matplotlib, Seaborn, TensorFlow, Steamlit

PROFESSIONAL EXPERIENCE

IBM, India — Technical Specialist   **Aug 2021 – Jun 2023**
- Demonstrated a **detail-oriented approach in utilizing SQL** to process and analyze extensive datasets, resulting in a 15% increase in the accuracy of data-driven decision-making
- Automated data processing with a focus on precision using **Java and Groovy**, which not only reduced worker effort by 30% but also expedited data analysis by 20% due to meticulous scripting
- Worked diligently within an **Agile environment**, emphasizing meticulous sprint planning and execution that led to a 15% reduction in project durations and supported precise, **data-driven decision-making** with actionable recommendations
- As an IBM Technical specialist, applied a detail-oriented methodology to enhance software quality by 10%, which was instrumental in decreasing errors and refining user experience. Provided thorough **mentorship** to 3 junior developers on project procedures, underscoring the importance of accuracy and detail

Accenture, India — Associate Software Engineer   **Feb 2021 – Aug 2021**
- Developed **15+ Tableau dashboards**, increasing client data comprehension by 40% and enhancing business insights through problem-solving to identify the most critical data points and visualizations that address specific client challenges
- Integrated **SQL databases with Tableau for** 10+ major clients, solving complex data integration issues and enabling efficient customer-level reporting, ultimately improving data analysis speed by 20% through innovative problem-solving approaches
- Played a key role in process improvement initiatives, applying problem-solving skills to identify bottlenecks, streamline workflows, and optimize data processing, contributing to a 20% increase in overall data processing efficiency

InfoCruise Technologies, India — Junior SQL Developer Intern   **Jan 2020 – Jun 2020**
- Implemented database optimization and ERP data integration, resulting in a 25% faster data retrieval speed and 100% data integrity, while also improving data consistency and reporting accuracy by 30%

PROJECTS

WhatsApp Chat Analysis: End-to-End Data Analysis Project with Deployment
- Orchestrated a comprehensive **WhatsApp Chat Analysis** project, demonstrating proficiency in **data science** and **quantitative analysis** on a **large dataset**, resulting in an impressive **86%** accuracy in data insights. Leveraged **Python, Pandas, Matplotlib, and Streamlit** to conduct robust data cleaning, processing, and visualization, while also developing an intuitive web application
- Implemented advanced data cleaning and statistical techniques, including point estimates and sample size estimation, to ensure high-quality analysis, actionable insights, and enhanced decision-making for reliable recommendations and project effectiveness in data and A/B testing

Adult Income Prediction   **Northeastern University**
- Led a data science project to predict adult income using **regression, decision trees, and random forests**, enhancing predictive accuracy
- Utilized **logistic regression and KNN** to identify key income predictors within the adult census dataset, achieving high interpretability
- Combined machine learning and statistical methods, like **Chi-squared tests and ANOVA**, to produce a concise, actionable report on income prediction

Airport Management System   **Northeastern University**
- Led the end-to-end development of an **Airport Management database** comprising 11 entities, employing **advanced SQL techniques such as aggregate functions and joins** to optimize data retrieval. Conducted in-depth numerical data analysis to refine database functions and procedures and presented the findings through **statistical summaries and graphical interpretations**, informing subsequent optimization strategies
- Utilized PowerBI to create insightful visualizations based on defined views, enhancing data interpretation capabilities. Designed a user-friendly graphical user interface using **Node.js and React**, enabling seamless **CRUD operations**. Integrated user-defined **functions, views, triggers, and stored procedures** to streamline data management processes and enhance overall system efficiency

SPECIAL HIGHLIGHT & LEADERSHIP

- As the **2019-2020 General Secretary of KLE TECH**, I led and executed diverse events, engaging over 2,000 students, and enhancing campus life. Under my leadership, the intensifying focus on sports has yielded a 20% rise in student participation, a 15% boost in sports performance, enriching the college experience, and enhancing student well-being