

BLESSY EVANGELINE AARON

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Profile

Detail-oriented Data Analyst with a strong background in SQL, data visualization, and application maintenance. Skilled at working with data pipelines, incident management, and reporting tools in fast-paced environments. Currently pursuing a Master's in Applied Data Science and Analytics in Germany, with a keen interest in turning complex data into actionable insights.

Technical Skills

Languages: Python, SQL, R, Git, Docker (basic), R

Data Processing & Visualization: NumPy, Pandas, Matplotlib, Power BI, Tableau

Databases & Management Tools: PostgreSQL, Microsoft SQL Server, MySQL, Bigquery, MongoDB, Google Cloud Platform (GCP), Databricks, PySpark

Machine Learning & Deep Learning: PyTorch, TensorFlow, Scikit-learn, Transformers, RLIB, Streamlit

Reinforcement Learning & Simulation: RL, Imitation Learning, Inverse Reinforcement Learning (IRL), OpenAI Gym

Project Management and Collaboration: JIRA, TFS, Confluence

Experience

Hexaware Technologies Pvt. Ltd.

May 2019 – September 2023

Mumbai, India

Software Engineer – Data Management and Application Support

- Performed end-to-end analysis, development, and maintenance of enterprise-level financial data applications such as Eagle STAR, PACE, and DDR systems.
- Gathered business requirements, translated them into technical solutions, and executed enhancement initiatives to improve application performance and user satisfaction.
- Developed and optimized SQL queries to retrieve, manipulate, and report financial data for audits, compliance, and senior leadership dashboards.
- Designed interactive Tableau dashboards for management reporting, visualizing KPIs and operational metrics for strategic decision-making.
- Utilized CA Autrosys for efficient job scheduling and batch process monitoring, ensuring timely execution of critical ETL pipelines.
- Collaborated with cross-functional teams across IT, business, and quality assurance to drive agile project delivery using JIRA and Confluence tools.
- Documented SOPs, technical workflows, and user manuals to streamline onboarding and knowledge transfer processes across teams.
- Contributed to knowledge-sharing sessions, mentoring junior team members on best practices in SQL scripting, dashboard development, and issue tracking.
- **Technologies Used:** SQL/PLSQL, Tableau, ServiceNow, AUTOSYS, UI Path, JIRA, Eagle STAR, PACE, DDR, Linux Server.

Education

SRH Hochschule Heidelberg, Germany

April 2024 – Present

GPA: Currently Pursuing

Master's in Applied Data Science and Analytics

- Coursework includes: Machine Learning, Deep Learning, Big Data Technologies, Data Engineering, Data Visualization, Predictive Analytics, Statistical Analysis, and Cloud Computing.
- Developing practical skills through real-world case studies, hands-on projects, and cross-functional team collaborations.
- Key Projects: Forecasting systems with Machine Learning models, Real-time analytics dashboards using Tableau and Python.
- Focus Areas: Data Mining, Advanced SQL, Python Programming for Data Science, Business Intelligence reporting.
- *Language of Instruction:* English

B.K. Birla College of Arts, Science and Commerce (Affiliated to Mumbai University)

April 2016 – April 2019

GPA: 7.9/10

Bachelor of Science in Computer Science

- Completed courses in Database Management Systems (DBMS), Data Structures and Algorithms, Object-Oriented Programming (Java), Operating Systems, Software Engineering, and Computer Networks.
- Built a strong foundation in SQL, Programming Logic, and Systems Analysis.
- Participated in coding workshops and departmental seminars focused on emerging trends in IT and Software Development.
- *Language of Instruction:* English

Certifications

Fundamentals of Deep Learning: NVIDIA

SAS Certified Specialist: Visual Business Analytics Using SAS Viya: SAS

Programming for Everybody (Getting Started with Python): Coursera

Python Data Structures: Coursera

Machine Learning A-Z: Udemy

Deep Learning A-Z: Udemy

Docker Masterclass for Machine Learning and Data Science: Udemy

Projects

E-commerce Price Aggregator and Data Pipeline

E-commerce Price Aggregator and Data Pipeline Jan 2024 – Mar 2024

Jan 2024 – Mar 2024

- Designed and implemented a full-stack web scraping pipeline to aggregate e-commerce product data from Flipkart, eBay, and Newegg using BeautifulSoup.
- Performed data parsing, cleansing, and transformation to convert unstructured HTML into structured tabular formats using Python and regular expressions.
- Stored cleaned data in HDFS for distributed storage and injected processed results into an SQL Server database for analytics.
- Ensured secure and encrypted remote access to the pipeline using Tailscale, enabling seamless data validation across systems.
- Enabled product price comparisons and vendor trend analysis by maintaining a near real-time data ingestion loop.
- **Tools used:** Python, BeautifulSoup, SQL Server, HDFS, Tailscale, Pandas

NYC Taxi Trip Analysis – Big Data Analytics

Feb 2024 – Apr 2024

- Processed and analyzed over 1 billion records from the NYC Taxi and Limousine Commission (TLC) trip dataset to uncover insights into fare structures, travel durations, and borough-wise trip distribution.
- Executed ETL operations for cleaning and transforming data using Python and SQL; used BigQuery for querying large volumes of structured trip records efficiently.
- Created a suite of interactive Tableau dashboards highlighting trends such as rush hour hotspots, trip frequency by vendor, and average fare comparisons.
- Generated insights that could potentially assist city planners and ride-hailing services in improving route planning and fare estimation models.
- **Tools used:** Tableau, SQL, BigQuery, Python, Pandas

Worldwide Series Analytics – Tableau Competition

Mar 2024 – Apr 2024

- Participated in a competitive Tableau data storytelling challenge, where participants were given streaming viewership datasets of global TV shows.
- Chose "Stranger Things" as a focus; visualized episode-level data, user engagement, and viewing trends using KPIs like watch-time, ratings, and sentiment.
- Designed an intuitive and visually compelling Tableau dashboard that was awarded for best insights and presentation clarity.
- Highlighted episodes with peak viewer drops and correlated them with user reviews and release intervals.
- **Tools used:** Tableau, Excel, Python, KPIs, Data Storytelling Techniques

Hush Hush Recruiter – ML-Powered HR Filtering System

Oct 2023 – Mar 2024

- Developed an automated recruitment assistance tool by scraping GitHub developer profiles and filtering them based on activity, language usage, and keyword frequency.
- Applied unsupervised learning (K-Means, DBSCAN) to cluster candidates based on codebase quality, engagement, and project diversity.
- Implemented supervised ML models (Logistic Regression, Random Forest) to score candidates based on hiring fit and past patterns.
- Achieved 85% improvement in candidate relevance and reduced manual screening time by 40% through dashboard automation.
- Deployed a web-based dashboard using Flask for recruiters to review, compare, and shortlist profiles interactively.
- **Tools used:** Python, Scikit-learn, Flask, GitHub API, Machine Learning, Jupyter Notebook

AI-Powered Learning Analytics System – Case Studies II Project

Jun 2024 – Oct 2024

- Built a data-driven analytics system to assess student behavior and academic performance for adaptive learning insights.
- Developed interactive Streamlit dashboards (Instructor Student) visualizing engagement metrics, performance trends, and progress predictions.
- Trained and evaluated Decision Tree and Random Forest models to identify learning patterns and predict student outcomes.
- Integrated model explainability and performance diagnostics through accuracy plots, feature importance, and behavioral trend visuals.
- **Tools used:** Python, Pandas, scikit-learn, TensorFlow, Streamlit, Plotly, Data Visualization, Machine Learning

Language Skills

Languages: Telugu (Native), English (Fluent), Hindi (Fluent), Marathi (Fluent), Tamil (Fluent), German (A2)

Hobbies

Exploring Data Visualization, Cooking, Traveling, Photography

References

Available upon request.