UDAY KIRAN LINGA

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SUMMARY

Professional with expertise in Data Analysis, Business Analytics, and AI-driven solutions. Proficient in SQL, Python, R, Tableau, Power BI, and cloud platforms (AWS, Azure, Vertex AI). Experienced in ETL processes, predictive analytics, data visualization, and generative AI prompt engineering. Skilled in using data to create actionable insights and improve decision-making.

EDUCATION

Master of Science in Information systems, DEPAUL UNIVERSITY- Chicago, IL (GPA: 3.8) **Jan 2023 — Jan 2025**
Majors: Analytics, Business Analysis and Project Management

Bachelor of Technology in Computer Science, GITAM University – Visakhapatnam, India (GPA: 6.5) **June 2018 — Apr 2022**

SKILLS USED

Programming Languages: SQL, Python, R, Matplotlib, HTML, SDLC, MySQL, Looker
Cloud and AI Technologies: Generative AI, Prompt Engineering, AWS, Vertex AI Studio, Azure, MongoDB, TensorFlow, Hugging Face, Fine-Tuning Models, Transfer Learning, API Integration, Model Evaluation Metrics, Agile, Git, Advanced Git
Data Analysis & Visualization Tools: Tableau, Power BI, Excel, Microsoft Office, Jupyter Notebook, Dashboards, Data Storytelling, Business Intelligence, Outlook, Business Process Modeling
Data Management & ETL: ETL, Data Warehousing, Big Data, Data Manipulation, Statistical Analysis, Data Science, Statistics, Mathematics, Predictive Analytics, Machine Learning Basics, Data Cleaning, Business Analytics, Advanced Data Analytics
Soft Skills: Cross-Functional Collaboration, Documentation, Market Research, Product Development, Product Lifecycle Management, Data Storytelling, Precision and Accuracy, Team Collaboration, Version Control, Quality Assurance, Innovation, Written and Verbal Communication, Requirements Gathering, JIRA

WORK HISTORY

PYTHON DEVELOPER INTERN – Phoenix Global **–** Visakhapatnam, India **June 2021 – February 2022**

- Engineered real-time **data processing** systems using **Python** and made dashboards to analyze 10,000+ data points daily, improving decision-making speed by 35%.
- Streamlined data transformation workflows using **APIs and JSON** decoding to handle 100+ API calls per day, reducing data retrieval time by 40%.
- Designed and implemented **user interfaces** to process 1,000+ requests per hour with a 2-minute refresh rate, boosting data accuracy and engagement by 25%.
- Constructed a back-end system to decode JSON data into nested **Python dictionaries**, processing 500+ JSON objects daily, optimizing data extraction time by 50% and meeting custom client specifications seamlessly.
- Built a front-end interface displaying 200+ vaccine data points, enabling 5,000+ users daily to access real-time data and improve decision-making by 30%.

PROJECTS

BANK CHURNERS CUSTOMER ANALYSIS – BUSINESS ANALYST **Sep 2024-Nov 2024**

- Created a dashboard with **Power Bi** and Conducted **EDA** on 10,000 customer records, identifying key churn factors and enabling strategies to reduce churn by 20%.
- Leveraged **SQL** to extract and manipulate data, uncovering trends and providing insights that improved retention strategies, cutting churn by 15%.
- Visualized churn rates by demographics, revealing a 26% churn rate and enabling targeted strategies to address high- risk groups, improving retention by 10%.
- Analyzed churn rates by age and gender, identifying younger customers (30% higher churn) and males (32% churn) as higher risks, leading to tailored plans that improved engagement by 25%.

GLUCOSE GUIDES ANALYSIS– DATA ANALYST **Sep 2023-Dec 2023**

- Performed **EDA** on 100,000 diabetes records, identifying 3 key predictors and improving diagnostic accuracy.
- Created 10+ visualizations and dashboard using **Tableau and Storyboard making** to analyze trends across age, glucose levels, and BMI, improving pattern recognition.
- Developed **advanced visualizations**, highlighting 15% higher diabetes prevalence in older populations with comorbidities.
- Used **violin plots** to reveal 20% glucose variance in older groups, emphasizing glucose as a primary predictor.
- Identified 3 key diabetes predictors—age, blood glucose, and hypertension—addressing 80% of high-risk cases, while finding smoking had <5% correlation using **R and Tableau**.

EFFECTIVE HEART DISEASE PREDICTION USING MACHINE LEARNING **Sep 2021-Apr 2022**

- Formulated a **Hybrid Random Forest model (HRFLM)** with 88.7% accuracy, improving diagnostic reliability.
- Integrated data from 10 hospitals, leveraging **ETL** processes to enhance data quality.
- Devised **predictive models** for ages 3–60, improving diagnostic utility across diverse groups.
- Produced **500+ pages of documentation**, ensuring scalability and reproducibility.

CERTIFICATIONS

ADVANCED GENERATIVE AI FOR DEVELOPERS – Google **September 2024**
INTRODUCTION TO GENERATIVE AI FOR DEVELOPERS – Google **August 2024**
DATA VISUALIZATION– Coursera **April 2021**

PUBLICATIONS

Effective Heart Disease Prediction Using Hybrid Machine Learning Techniques
- Published in International Journal of Scientific Research in Engineering and Management

OTHER EXPERIENCE

- **Peer Mentor** – DePaul University: Guided 10+ students in SQL, Python, and machine learning, enhancing project outcomes by 25%.
- **Data Science Initiatives Member** – GITAM University: Organized workshops and events, increasing participation by 30%.
- **Member at Data Analytics Club** – Collaborated on 5+ projects, streamlining decision-making processes by 15%.