

Aman Dhakad

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EDUCATION

Master of Science, Information Technology and Management(data analytics)

Jan 2023 - Dec 2024

Illinois Institute of Technology, GPA 3.8/4.0

Chicago, IL

Relevant Coursework: Web Development, Machine Learning, DBMS, Database Security, Data Warehousing, Project Management.

Bachelor of Technology, Computer Science and Engineering

May-2018 - Jun-2022

Rajiv Gandhi Proudlyogiki Vishwavidyalaya

Indore, India

PROFESSIONAL EXPERIENCE

HieCOR Software Technologies

Feb 2022 - Nov 2022

Software Engineer

Remote

- Conducted in-depth data analysis using SQL, Python (Pandas, NumPy), and R to identify key business trends, improving decision-making efficiency by 20%.
- Developed interactive dashboards using Tableau, Power BI, and Looker, reducing manual reporting time by 30%.
- Extracted, transformed, and loaded (ETL) data using Apache Airflow, Alteryx, and Talend, improving data processing efficiency.
- Built predictive models with scikit-learn, TensorFlow, and SAS to forecast trends, increasing revenue growth by 10%.
- Performed A/B testing and statistical analysis using Excel (Advanced), Python (SciPy, StatsModels), and Google Analytics, leading to a 15% improvement in customer engagement.
- Automated data workflows using SQL stored procedures, Python scripts, and AWS Lambda, streamlining processes by 25%.
- Collaborated with cross-functional teams, translating insights into actionable business strategies.
- Presented findings through compelling visual storytelling using PowerPoint, Google Slides, and data visualization libraries (Matplotlib, Seaborn, Plotly).
- Integrated and managed large datasets using AWS Redshift, optimizing query performance and reducing data retrieval time by 40%.

Pep Coding Education

Jul 2021 - Dec 2021

Software Engineering intern

Remote

- Analyzed data from 800+ online students, identifying patterns in user behavior, learning progress, and performance metrics using Python, Pandas, and NumPy, driving platform improvements that increased student retention by 15%.
- Designed and optimized database queries using PL/SQL for efficient data extraction, improving data retrieval speed and accuracy. Managed data storage and organization to enhance reporting capabilities and support informed decision-making
- Generated monthly reports using Tableau, showcasing key insights on platform growth, user demographics, and learning outcomes, contributing to a 20% increase in targeted marketing efforts.
- Built and implemented data models in PostgreSQL, enhancing data storage, retrieval efficiency, and supporting better decision-making processes across the platform.

PROJECTS

ASL Prediction using Vanilla CNN 5 Layered Architecture | [Link](#)

- Deployed a CNN model using Flask for predicting American Sign Language with 85% accuracy, utilizing Pandas, NumPy, TensorFlow, and Flask

Assistive Vision | [Link](#)

- Developed "Assistive Vision" for visually impaired users, providing real-time object descriptions and auditory feedback via webcam.
- Utilized BLIP for image captioning, OpenCV for video capture, and pyttsx3 for text-to-speech, creating an accessible solution to enhance environmental awareness.

Sentiment Analysis for U.S. Election Prediction

- Conducted sentiment analysis on 100,000+ election-related tweets using NLP, achieving 75% accuracy in classifying voter sentiment and predicting election trends.
- Performed data preprocessing, exploratory analysis, and sentiment classification, providing valuable insights into voter sentiment.

SKILLS

- **Programming & Machine Learning:** Python, R, C++, SQL, TensorFlow, scikit-learn, Keras, PyTorch, OpenCV.
- **Data Engineering & Big Data:** Apache Spark, Hadoop, Kafka, ETL frameworks, Data Pipelines, Apache Airflow, MongoDB.
- **Data Visualization & Reporting:** Tableau, Power BI, Matplotlib, Seaborn, Plotly, ggplot2.
- **Cloud Platforms & Deployment:** AWS, Google Cloud, Microsoft Azure, AWS Lambda, Google AI Platform, Azure ML.
- **Data Engineering Tools & Technologies:** Apache NiFi, Informatica, Apache Flink, Apache Beam, DBT (Data Build Tool), Google BigQuery, Amazon Redshift, DataStage.

ACHIEVEMENTS AND CERTIFICATION

- **Google Data Analyst Certificate:** Proficient in data analysis techniques, visualization, and statistics | [Link](#)
- **Ranked 6th in Data Structure and Algorithm and 4-star coder status on Code chef** | [Link](#)