Aman Dhakad

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https://amandhakad4u.github.io/AMAN_PORTFOLIO/

EDUCATION

Illinois Institute of Technology. Chicago, Illinois, USA
Master of Science | Information Technology and Management. Jan 2023 – Dec 2024

SKILLS

- **Programing languages:** HTML, CSS, JavaScript, MySQL, Pl/SQL, Python, Bash scripting, C++, C#.
- **Framework & Libraries:** Node.js, Django, Flask, Express.js, React.js, NLTK, OpenCV, Pandas, NumPy, scikit-learn, TensorFlow.
- **Database technology:** MySQL, PostgreSQL, MongoDB, DynamoDB, Apache spark.
- **Machine Learning:** Supervised Unsupervised Learning, Reinforcement, Neural Networks, NLP.
- **DevOps and cloud:** CI/CD, Docker, Kubernetes, Git, Agile, MLflow, AWS (EC2, S3, RDS, ECS), Azure.

WORK EXPERIENCE

HieCOR Software Technologies Remote
Software Engineer Feb 2022 – Nov 2022

- Developed dynamic user interfaces with **React**, boosting user engagement by 30%, while building server-side applications using **Node.js** and **Express**, improving API response times by 25% and enhancing data processing efficiency.
- Created RESTful APIs in **Django**, facilitating secure data exchange between the front-end and back-end systems, improving application scalability and integration capabilities.
- Optimized SQL database queries, reducing data retrieval times by 25% and increasing overall database efficiency, serving over 1,000 users.
- Participated in Agile sprints and used **JIRA** for tracking, contributing to a 20% reduction in project delivery time. Managed code with **Git**, ensuring collaboration and maintaining quality within a team of 5 engineers.

Pep Coding Education Remote
Software Engineering intern July 2021 – Dec 2021

- Utilized advanced indexing, query optimization, and normalization techniques in **SQL**, reducing database access latency by 25% and enhancing system scalability for handling large datasets.
- Designed and implemented automated **ETL workflows** using **Python**, **Apache Airflow**, and **SQL**, reducing manual data handling by 30% and improving data processing times by 20%.
- Integrated processed data into interactive dashboards with **Power BI**, providing real-time insights that supported business decision-making and reduced reporting times by 25%.

PROJECTS

ASL Prediction using Vanilla CNN 5 Layered Architecture:

- Used Flask to deploy the CNN model for predicting American Sign Language, using Pandas, NumPy, TensorFlow, Flask, VScode, Git, Anaconda Environment.

Price prediction system:

- Applied data mining techniques to analyze historical trends, contributing to more accurate predictions of future Bitcoin prices with a reduced error rate (RMSE of just 172) using pandas, NumPy, and time forecast series to predict Bitcoin prices for strategic decision-making.

Sales analysis (Microsoft Fabric)

- Prepared a Datawarehouse using a data lake medallion architecture by following the ETL process, utilizing Microsoft Fabric and Azure Blob Storage. Produced facts and dimensions to design the data warehouse and prepared a Power BI visualization report.

Face recognition Attendance System:

- Employed OpenCV (LBPH) for precise face recognition, ensuring reliable identification of students.
- Integrated tkinter for a user-friendly GUI, simplifying interaction and navigation within the system.
- Implemented real-time video processing for prompt attendance tracking, accommodating a large user base of 2000+ students.

ACHIEVEMENTS AND CERTIFICATION

- **Google Data Analyst Certificate** - Proficient in data analysis techniques, visualization, and statistics.
- **Ranked 6th** in Data Structure and Algorithm among all institute students.
- **4-star coder** status in Data Structure and Algorithm on Code chef.