YASH NITIN SONI

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EDUCATION

University of Maryland, Baltimore County January 2024 - Present
Master's in information systems GPA – 3.83/4.0
Coursework: Management Information Systems, Data mining, Data Analysis for Cybersecurity, Decision making support systems, Structured System Analysis and Design, Advance Database Projects, Statistical Learning for Data Analysis, Interfaces For Info. Visualization & Retrieval.

Vishwakarma Institute of Technology August 2018 – July 2022
Bachelors in computer science GPA – 3.4/4.0

SKILLS

- Programming Languages: C, C++, Python, HTML, CSS, Kotlin, React.js
- Frameworks/Technologies: Flask, TensorFlow, OpenCV
- Database Systems: MySQL, SQLite, Snowflake, MongoDB, Oracle, PL/SQL
- Cloud & AI/ML Technologies: AWS (EC2, S3, SageMaker), Data Visualization, Tableau, Model Deployment
- Version Control: GIT, GitHub
- Certificates: AWS Certified Cloud Practitioner, HackerRank SQL(Advanced)

WORK EXPERIENCE

Associate Engineer – Product Developer, *Harman Connected Services, Pune, India* May 2022 – June 2023

- Extracted and processed structured data from APIs: Retrieved and transformed JSON data from REST APIs using Retrofit and Python, ensuring seamless integration into backend databases for analytics and reporting.
- Managed and optimized database performance: Worked with MySQL and Firebase to store, retrieve, and optimize structured data, reducing query execution time by 30% through indexing and optimization techniques.
- Devised automated data workflows: Built 10+ Python scripts to clean and validate incoming data, ensuring 100% structured dataset accuracy for business intelligence dashboards.
- Designed and implemented data validation procedures: Used SQL constraints and Python-based anomaly detection, reducing data errors in reporting pipelines by 40% and enhancing analytical accuracy.
- Collaborated with cross-functional teams: Partnered with 5+ data analysts and software engineers to design and deliver clean, structured datasets, increasing data pipeline efficiency by 25% for machine learning models and dashboards.

PROJECTS

Customer Churn Prediction for Telecom Provider

- Built an 85%-accurate churn prediction model using logistic regression and decision tree algorithms, based on 7,000+ customer records.
- Identified key churn factors such as contract type, monthly fees, and customer tenure, and improved model performance through feature engineering and hyperparameter optimization, raising the F1-score by 12%.

Online Proctor System

- Engineered an AI-driven automated proctoring system with TensorFlow and OpenCV, incorporating face detection, eye tracking, and head pose estimation.
- Applied YOLOv3 for real-time person counting and mobile phone detection, reducing unauthorized activity by 30%.
- Integrated speech recognition and NLP-based audio monitoring, detecting irregular activities with 90% accuracy during exams.

Intra and Inter-collegiate Event Media

- Designed an event management platform utilizing PHP and MySQL, facilitating seamless event coordination, and significantly improving student on-campus participation by 40%.
- Executed a responsive user interface with HTML, CSS, and React JS, ensuring a smooth user experience across various devices and platforms for over 5000 users.
- Automated email and SMS notifications to enhance communication between event organizers and participants, reducing manual efforts by 30%.