SAKETH MADDALI

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Profile

- Experienced in designing and implementing data pipelines, optimising database performance, and ensuring robust data security. Strong problem-solving skills with knack for translating complex requirements into actionable insights.

Experience

Data Engineer **09/2023 to Current**
Tech Mahindra
Client: Brightspeed

- Built and managed data pipelines on GCP for seamless integration of data from diverse sources, like APIs and PostgreSQL.
- Reduced time complexity by over 50% through parallel processing in DAGs, replacing sequential workflows.
- Designed scalable datasets and tables in BigQuery to handle large-scale data efficiently.
- Ensured data accuracy with robust validation and monitoring mechanisms.
- Delivered structured data solutions enabling timely and actionable business insights.
- Automated repetitive tasks using Python, reducing manual effort and errors.
- Developed scalable data workflows that supported Brightspeed's business growth.

Education

Bachelor's Degree: **Computer Science** **2023**
Vasireddy Venkatadri Institute of Technology CGPA: 9.07/10.0
Intermediate: **MPC** **2019**
Narayana Junior College CGPA: 10.0/10.0
SSC **2017**
Sri Gowthami Smart School CGPA: 10.0/10.0

Skills

- Languages : C, Java, Python, C++, Javascript
- Database : Mysql, OracleSQL, Postgres
- Full Stack Development: HTML, CSS , Javascript, Flask, Django, Spring MVC
- Data Analysis: Numpy, Pandas, Matplotlib
- Data Science: NLP, Standard ML Algorithms
- Developer Tools : Eclipse, VS Code, Git, IntelliJ
- Linux operating system
- ETL development, Bigquery, Airflow

Certifications

- AWS - Cloud Foundations
- GCP- Professional Data Engineer
- NPTEL - Blockchain

Projects

Student Management portal

- The website allows you to register and create course related study material if you are logged in as a teacher or gives access to the courses if you are logged in as a student. I developed the front end and backend of this website using HTML, CSS, JS, Python and Flask.

Drowsiness Detector

- The Drowsiness Detector project uses Haar Cascades for face and eye detection, combined with Convolutional Neural Networks (CNNs) to identify signs of drowsiness in real-time. The system continuously monitors a person's facial features, to detect if the individual is fatigued or at risk of falling asleep. This approach ensures high accuracy and quick detection, even in varied lighting conditions. I published a research paper on this innovative method, showcasing its potential for improving safety in critical settings like driving.

Accomplishments

- Achieved the **X rating** (highest performance rating) for exceptional work on the Brightspeed project.
- Served as a **Chairman's Club member** in college for four consecutive years, recognizing academic excellence.
- Secured **first place among 5000+ participants** in the "Crack the Code" contest held at VVIT.