

AMRITANSHU SHIWANSHI

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EDUCATION

B.Tech CSE <i>SRMIST Kattankulathur</i>	2022 – Present Chennai
Senior Secondary School <i>Jawahar Navodaya Vidyalaya</i> 82.2%	2020 – 2021 Mandi

SKILLS

Analytical Tools:

Power BI, Quadratic, MS Office, n8n Automation

Programming Languages:

Python, SQL, Java, JavaScript (React.js, Node.js)

Machine Learning & Deep Learning:

YOLOv5, OpenCV, Model Optimization, Feature Engineering

Databases:

PostgreSQL (Supabase), MongoDB

Technical Competencies:

Data Structures & Algorithms, API Development,
Workflow Automation, Real-time Video Processing, Face
Recognition & Liveness Detection

PROJECTS AND PUBLICATIONS

Detection of Depression Using Sentiment Analysis from Social Media Comments [Python | TF-IDF | RoBERTa] *IEEE - (AIC 2025)*

- Built a sentiment analysis model achieving 89.57% accuracy and 0.90 F1-score on Reddit comments using TF-IDF with RoBERTa and SVR.
- Improved minority class detection via RandomOverSampler, reaching 0.90 precision and 0.90 recall across sentiment categories.

Browser-Based Live Face Authentication System with Spoof Detection [React js, Node js, Mongo DB]

- Developed a browser-based face authentication system using React.js and Node.js with in-browser face recognition and liveness detection to ensure secure, low-latency authentication.
- Implemented spoof detection through randomized liveliness checks (e.g., blink, head-turn, gaze tracking) to block photo, video, and mask-based attacks.

Supply Chain Analytics – AI-Driven Analysis [n8n | Quadratic | PostgreSQL (Supabase)]

- Built an automated workflow using n8n to ingest order and inventory data directly from email into a Supabase-hosted PostgreSQL database, enabling real-time visibility across the supply chain.
- Performed AI-powered analysis in Quadratic by connecting to PostgreSQL, calculating key supply-chain KPIs (OT %, IF %, OTIF %, Line Fill Rate, Volume Fill Rate), and generating insights on customer performance and city-wise delivery trends.
- Created KPI sheets and automated insights that helped identify top customers by order value, delivery performance patterns, and potential bottlenecks, improving analytics accuracy and reducing manual effort significantly.

Pothole Detection using YOLOv5 [OpenCV | Model Optimization]

- Engineered a real-time pothole detection system achieving 89.25% accuracy and 23.99 FPS, leveraging YOLOv5 with a custom-annotated road dataset (50+ hours of video footage).
- Designed and optimized OpenCV-based image/video processing pipelines, enabling robust detection in varied lighting and weather conditions with 90.37% precision.

CERTIFICATES

Oracle Data Platform 2025 Foundations Associate

Oracle University

Google Analytics

Google

Machine Learning Foundation

AWS ACADEMY

Data Analytics Essentials

Cisco

Introduction to Data Science

Cisco