

Venkatesh D

MSc. Data Science

Coimbatore Institute of Technology,
Coimbatore

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EDUCATION

| Course | College/University | Year | CGPA/% |
|-------------------|----------------------------------------|---------|-------------------------------------|
| MSc. Data Science | Coimbatore Institute of Technology | 2023-25 | 7.52(Till 5 th semester) |
| Higher Secondary | Bala. Barathi. Matric. Hr. Sec. School | 2021-23 | 90% |

SUMMARY

Data professional with strong expertise in SQL, Python, and data analytics, transforming complex datasets into actionable business insights. Skilled in data modeling, EDA, and dashboard development, delivering data-driven solutions that support strategic decision-making.

PROJECTS

NETRATAX – Tax Fraud Detection using GNN

[LINK](#)

Tools & Technologies: Python, SQL, PyTorch, Flask, PostgreSQL

- Engineered a data-driven fraud detection system analysing GST transaction networks to identify shell entities and circular trading patterns. Structured relational datasets and automated graph construction for scalable risk analysis.
- Built fraud risk scoring model achieving **87% accuracy with <5% false positives**.
- Delivered interactive dashboards enabling **risk-based prioritization and faster investigations**.

TRI-BIOMETRIX - Intelligent Multimodal Biometric Security System

[LINK](#)

Tools & Technologies: Python, TensorFlow, OpenCV, Flask

- Implemented a multi-factor authentication system integrating face, voice, and gesture recognition. Applied deep learning models to enhance identity verification accuracy and system reliability.
- Improved system security by minimizing unauthorized access through layered biometric validation.

UPI ₹15+ Lakh Crore Digital Payments Velocity Dashboard

[LINK](#)

Tools & Technologies: Power BI, DAX, Power Query, SQL, Excel

- Analyzed ₹15+ lakh crore RBI UPI transaction datasets using SQL and DAX to evaluate payment trends and state-wise growth patterns.
- Built interactive Power BI dashboards delivering KPI-driven insights into transaction velocity and digital market expansion.

INDUSTRY EXPERIENCE / FREELANCE PROJECT

Unirols Airtex – Web Development & AI Integration

Architected a full-stack corporate website using React and Flask, structuring product data for improved navigation and customer engagement. Integrated an AI-based chatbot to automate product inquiries and enhance customer support efficiency.

SKILLS

Python, SQL | Data Modeling, EDA | Machine Learning | Power BI, DAX | PostgreSQL | Excel, Git

ACHIEVEMENTS & CERTIFICATIONS

- ❖ **SMART INDIA HACKATHON 2025 - Internal Hackathon winner**; recognized as top 50 teams.
- ❖ **TECH SCULPT PROJECT EXPO 2025, IEE STUDENT BRANCH - Winner**, awarded for excellence in technological innovation.
- ❖ **CIT SPARK GRANT 2025 - Finalist**; pitched innovative project demonstrating impact and technical excellence.
- ❖ **ASTRANOVA HACKATHON 2026 (Dept of IT, CIT) - First Runner-up**, recognized for high-impact innovation.
- ❖ **THE BIG HACK 2025, AIT BANGALORE - Finalist**; selected among 6 teams from 82 initial teams, led a team of 4.
- ❖ Awarded the “**Service of Mankind**” honor by the Governor of Tamil Nadu for serving as Scout Captain for 2.5 years.

CO-CURRICULAR ACTIVITIES

- Secretary, 403Strats Club** – CIT, Coimbatore [Apr '25 - Jun '26]
Led a 20 - member team, organizing events and workshops that fostered collaboration and skill-building.
- Innovation Lead & Editor, Datalytics Club** – CIT, Coimbatore [Apr '24 - Mar'25]
Led creative projects and designed event posters using Canva to boost club visibility.