Alwin Mathew Tomy

Linkedin: linkedin.com/in/alwin-mathew-tomy
GitHub: github.com/AlwinMT31
Email: alwinmathewtomy31@gmail.com
Mobile: +91-9188187253

Skills

- **Languages**: Python, C++, C, Java
- **Frameworks**: PyTorch, Scikit-learn, Pandas, NumPy, OpenCV, Transformers, NodeJS, React
- **Tools/Platforms**: Jupyter Notebook, Google Colab, MySQL, MongoDB
- **Soft Skills**: Problem-Solving, Team Player, Critical Thinking, Adaptability

Projects

Credit Card Fraud Detection System: Link — Jun.2025 – Jul.2025

• Developed a machine learning–based Credit Card Fraud Detection system using Python, training and evaluating Logistic Regression, Random Forest, and XGBoost models for fraud classification.

• Performed data preprocessing, feature scaling, and handled class imbalance, optimizing model performance using metrics such as Precision, Recall, F1-Score, and ROC-AUC.

• Analyzed model performance and built Power BI dashboards to visualize fraud patterns and support data-driven risk assessment.
Tech: Python, pandas, NumPy, scikit-learn, XGBoost, Power BI

Grievance Redressal Platform: Link — Feb.2025 – May.2025

• Developed a centralized grievance management platform using the MERN stack, enabling structured complaint submission, automated routing, real-time status tracking, and escalation workflows to streamline issue resolution.

• Integrated an NLP-based machine learning model to intelligently classify complaints and generate automated responses, significantly reducing manual intervention and turnaround time.

• Designed analytics dashboards and implemented auditable tracking mechanisms to ensure transparency, performance monitoring, and data-driven administrative decision-making.
Tech: MERN Stack, MongoDB, NLP Classification, REST APIs, Power BI / Tableau

Training

From Data to Decisions : A Hands-On Approach to Data Science: Link — Jun.2025 – Jul.2025

• Completed a 55–60 hour hands-on Data Science training covering SQL, Excel, Power BI, and Python.

• Gained practical experience in data cleaning, exploratory data analysis, visualization, and building machine learning models using NumPy, Pandas, Matplotlib, Seaborn, and Scikit-Learn.

• Developed interactive dashboards and applied ML techniques to solve real-world business decision-making problems.

Certificates

- Human Computer Interaction by NPTEL — Apr.2025
- Introduction to Hardware and Operating Systems by IBM — Sept.2024
- Digital Systems: From Logic Gates to Processors by UAB — Sept.2024

Achievements

Secured Top 2% Rank in NPTEL – Human Computer Interaction: — Apr.2024

Among 4k+ participants nationwide.

Education

- **Lovely Professional University** — Punjab, India
  Bachelor of Technology - Computer Science and Engineering; ***CGPA: 7.39*** — *Aug.2023 - Present*
- **Kendriya Vidyalaya Keltron Nagar** — Kannur, Kerala
  Intermediate; ***Percentage: 82.8%*** — *Apr.2021 – Mar.2023*
- **Kendriya Vidyalaya Keltron Nagar** — Kannur, Kerala
  Matriculation; ***Percentage: 87.4%*** — *Apr.2020 – Mar.2021*