

Manoj A

B. Tech Artificial Intelligence and Data Science
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[Leetcode](#) | [Github](#) | [LinkedIn](#)

EDUCATION

Examination	University	Institute	Year	CGPA (%)
Graduation	Anna University	Karpagam College of Engineering	2026	9.03
HSC	State Board	Sri V.R.V Matric Higher Secondary School	2022	9.55

SKILLS SUMMARY

Languages : Python, Java,, SQL, CSS, JavaScript, HTML
Frameworks : Pandas, Numpy, Scikit-learn, Tensorflow, Matplotlib, Seaborn, Keras, OpenCV.
Tools : MySQL, MongoDB, Tableau, Git, Github, Docker, Spark, Hadoop, Jupyter, VS Code, Google Colab.
Platforms : Streamlit, Gradio
Soft Skills : Communication, Leadership, Problem Solving, Critical Thinking, Time Management, Teamwork

KEY PROJECTS

- Vehicle Routing | Self Project | [Link](#)** [Jan '25]
- Improved a solution for the Vehicle Routing Problem using GA to minimize delivery distance and balance workloads among vehicles.
 - Enhanced skills in evolutionary algorithms, multi-objective optimization, and real-world logistics problem-solving.
 - Utilized Python library DEAP for optimization, Matplotlib for visualization, achieving 28.20% reduction in the total distance travelled.
 - Improved skills in Python libraries like DEAP for evolutionary algorithms and Matplotlib for visual analytics.
- Face Recognition and Matching System | Self Project | [Link](#)** [Nov '24]
- Developed a face recognition system leveraging face_recognition and OpenCV with HOG optimization for efficient processing.
 - Implemented cloud-based development using Google Colab and utilized Google Drive for storage and visualization of matched faces.
 - Enhanced face matching accuracy and user experience by enabling adjustable similarity thresholds and flexible saving options.
 - Improved skills in computer vision, facial recognition algorithms.
- Customer Churn Prediction System | Self Project | [Link](#)** [Aug '24]
- Implemented a machine learning-based application to predict customer churn in the telecom sector, enabling proactive retention strategies.
 - Utilized Python libraries like scikit-learn and RandomForestClassifier for model design and implementation.
 - Deployed the model as a Streamlit web application, enhancing stakeholder decision-making and user accessibility to churn predictions.
 - Improved skills in machine learning, feature engineering, and web deployment using Streamlit.
- AutoML Credit Card Fraud Detection | Self Project | [Link](#)** [Mar '24]
- Designed and developed an AutoML-based credit card fraud detection system to analyze transaction data and identify fraudulent activities.
 - Utilized Python, H2O.ai AutoML, Scikit-learn, and Docker for efficient model deployment and fraud prevention.
 - Significantly reduced false positives, enhancing customer trust and minimizing financial losses for the organization.

EXPERIENCE

Altalya Solutions-Tiruppur (A DPIIT-recognized startup specializing in IT career upskilling)

- Junior Web Developer Intern** [Sept '23 - Oct '23]
- Developed a responsive web application during internship, demonstrating proficiency in HTML, CSS, and JavaScript.
- JavaScript Developer Intern** [Jun '24 - July '24]
- Applied JavaScript solutions and expanded proficiency in front-end development and collaborated effectively within an agile team environment

CERTIFICATIONS

- NPTEL – Foundations of R Software– Elite [July '23 - Oct '23]
- Machine Learning with Python- freeCodeCamp [Sept '23]
- NPTEL– Data Analytics with Python-Elite [Jan '24 -Apr '24]
- Qlik Business Analyst Certification – Qlik Learning [Oct '24]

SCHOLASTIC ACHIEVEMENTS

- Team leader - SIH(2024) and selected in top 30 teams out of 120 in college level [Sept '24]
- Taken lectures (ML) on the Altalya Solutions pvt ltd-Tiruppur [Jul' 24]
- Coordinator for the Cultural event in the College [Mar '24]

EXTRA-CURRICULAR ACTIVITIES

- Participated in the Hackathon conducted by CIT ,Coimbatore. [Oct '24]
- Actively practicing DSA problems | solved 400+ in leetcode [Dec '24]