

MACHA TRISHITA

Bachelor's Degree (B. Tech) | ECE (Electronics and communication Engineering)

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GitHub: <https://github.com/TrishitaMacha>

SUMMARY

Highly motivated and detail-oriented graduate with strong skills in Python, SQL, Power BI, Excel, Pandas, NumPy, Streamlit, LangChain, and Generative AI tools. Experienced in data analysis, dashboard development, automation workflows, and problem-solving using modern AI and analytics technologies. Recognized for quick learning, adaptability, strong communication, and the ability to work effectively in team environments. Focused on delivering accurate results, improving processes, and contributing efficiently to organizational goals.

SKILLS

Technical Skills

- **Programming:** Python, Java(basics)
- **Data Analysis & Visualization:** SQL, Tableau, Power BI, Streamlit
- **AI & Automation:** LangChain, Generative AI Tools
- **Version Control & Cloud:** GitHub
- **Data Manipulation & Reporting:** Pandas, NumPy, Excel

Professional Skills

- Communication & Team Collaboration
- Problem-Solving & Adaptability
- Time Management, Task Prioritization & Multitasking

PROJECTS

Career-Guidance AI Agent | LangChain, Streamlit, Generative AI

- Built a full AI-powered web application that provides career guidance, personalized mentoring, college options, and skill suggestions.
- Integrated prompt engineering, conversation flows, memory, and real-time responses using Generative AI.
- Designed a clean, user-friendly Streamlit UI with smooth navigation and interaction.
- GitHub: <https://github.com/TrishitaMacha/Career-Guidance-AI-Agent>

AI Resume Checker | Streamlit, Generative AI, Python

- Developed an intelligent ATS-style resume evaluation tool using GenAI models.
- Automatically analyzes resumes for structure, skills, ATS keywords, clarity, and score.
- Provides improvement suggestions, missing skills, and a rewritten summary for job readiness.
- GitHub: https://github.com/TrishitaMacha/Streamlit_projects_with_genai

Study Companion Chatbot | Streamlit, GenAI, Python

- Built a personal AI study assistant capable of explaining topics, answering questions, and summarizing content.
- Implemented a simple and clean UI with persistent chat and fast responses.
- Demonstrates ability to integrate education-oriented GenAI tools.
- GitHub: https://github.com/TrishitaMacha/Streamlit_projects_with_genai

E-Commerce Sales Analysis (EDA) | Python, Pandas, NumPy, Matplotlib

- Analyzed 10K+ sales records to identify trends, category-wise performance, and profit insights.
- Created visualizations for sales variation, discount vs profit, and region segmentation.
- Cleaned and transformed raw data into decision-making insights.
- GitHub: https://github.com/TrishitaMacha/Ecommerce_Sales_EDA

INTERNSHIP EXPERIENCE

Mastercard Cybersecurity Program (Forage)

Virtual Internship

(DEC-2024) – (JAN-2025)

- Designed a phishing email simulation to assess cybersecurity threats.
- Analysed and interpreted phishing simulation results to identify vulnerabilities and recommend mitigation strategies and gained practical exposure to cybersecurity principles and threat analysis techniques.

CITD (Central Institute of Tool and Design)

- Designed and implemented a 16-bit Carry Select Adder (CSLA) using Binary-to-Excess-1 Converter (BEC) for improved efficiency.
- Performed gate-level design and simulation using CADENCE NC-Verilog and RTL Compiler.
- Optimized the design by conducting timing analysis and delay calculations to reduce critical path delays.

EDUCATION

Sreyas Institute of Engineering and Technology

B.Tech

2022 - 2025

Grade: 7.3 CGPA

Teegalla Krishna Reddy Institute of Engineering and Technology

Diploma

2019 - 2022

Grade: 8.09

Sree Balaji High School

SSC

2018 - 2019

Grade: 8.3

CERTIFICATIONS

- Python from Infosys
- ChatGPT Prompt Engineering from DeepLearning
- Java from Great Learning
- Cybersecurity from Mastercard (Forage)
- Project Management from Accenture (Forage)
- VLSI from CITD