

Mayank Mehra

Portfolio: <https://mayank-portfolio-pied.vercel.app/>

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EDUCATION

- SRM Institute of Science and Technology** Chennai, India
 - Bachelor of Computer Applications; GPA: 8.11* *June 2022 - May 2025*
 - Courses: Operating Systems, Data Structures, Networking, Databases, Artificial Intelligence*

SKILLS SUMMARY

- Core Competencies:** Data Science, Machine Learning, Predictive Analytics, Statistical Modeling, Data Analysis
- Programming Languages:** Python, SQL
- Generative AI:** LangChain, RAGs, LoRA, GPT-3.5/4, LLaMa and other models.
- AI Libraries/Frameworks:** NLTK, spaCy, PyTorch, TensorFlow, scikit-learn, SciPy, NumPy, Pandas, Matplotlib
- Cloud & Full Stack:** AWS, Django, Flask, Version Control Git
- Tools:** MySQL, Jupyter Notebook, Advanced Excel, Google Sheets, Powerpoint, VS Code
- Machine Learning:** Linear and Logistic Regression, Tree-based (Decision Trees, Random Forest, GradientBoost, XGBoost), Naive Bayes, SVM, KNN, Clustering (K-Means, Hierarchical), PCA

INTERNSHIPS

- Juniper Networks** Chennai, India
 - AI Intern* *January 2025 - March 2025*
 - Understood core concepts of Mist AI, including AI-powered insights, automation, and user experience optimization in enterprise networking.
 - Applied theoretical knowledge via interactive modules and real-world problem-solving tasks.
 - Strengthened skills in networking, AI integration, and automation relevant to modern enterprise IT environments.
- Emami Ltd** Kolkata, India
 - AI-ML Intern* *June 2024 - August 2024*
 - Completed an internship focusing on web scraping and sentiment analysis for selected Emami products.
 - Worked on various sub-projects involving matrix & eigenvectors, regression, clustering and convolutional neural networks (CNNs)
 - Gained hands-on experience in these areas, contributing to data-driven insights and product analysis.
- Altair Ltd** Chennai, India
 - AI-ML Intern* *April 2024 - June 2024*
 - Gain expertise in data visualisation, predictive modelling and machine learning by completing the Altair Data Science Master Internship.
 - Achieved high marks in the final assessment. Demonstrated strong ability to apply advanced data science concepts to real-world challenges.
 - Leveraging cutting-edge tools and techniques, you will be equipped with the practical skills to contribute effectively to data-driven projects.

PROJECTS

- Mental Health Chatbot :** Built a conversational AI chatbot addressing mental health topics such as stress, anxiety, and depression by leveraging a custom-built dataset and vector-based semantic search. Integrated the Gemini API using LangChain with RAG (Retrieval-Augmented Generation) to deliver personalized, context-aware responses.
Tech Stack: Python, LangChain, Gemini API, FAISS (Vector Store), RAG
- Virtual Lawyer Chatbot :** Built a conversational AI chatbot leveraging NLP techniques and legal datasets to answer common legal queries, simulating a virtual legal assistant for public legal awareness. **Tech Stack:** Python, Hugging Face Transformers, Flask, React, Langchain
- Real-Time Sign Language Interpreter: :** Designed a real-time sign language to text system using CNN and XGBoost to translate hand gestures into English, enhancing communication accessibility for the hearing-impaired. **Tech Stack:** Python, OpenCV, CNN, XGBoost

CERTIFICATIONS

- AWS Academy Graduate: *Machine Learning (2023)*
- Alteryx: *Machine Learning (2024)*
- HackerRank: *Problem Solving (Intermediate) skill assessment (2023)*
- RapidMiner: *Machine Learning, Applications & Use Cases, Data Engineering (2024)*
- Tata Strive: *Cyber Security Analyst (2025)*
- AWS Academy: *Cloud Foundations (2023)*
- Cisco: *Python Essentials 1 (2023)*
- UC San Diego: *Data Structures and Algorithms (2023)*
- Hackathon: *2023 SATU SMART 5th International Innovation Competition*