

EDUCATION

Degree	Specialization	Institute	Year	CPI
B.Tech	Computer Science & Engineering (Cybersecurity and Digital Forensics)	VIT Bhopal University	2022-Present	9.22
Class XII	Physics, Chemistry, & Mathematics	Narayana College	2022	9.73
Class X	-	Sri Chaitanya School	2020	10.0

WORK EXPERIENCE

- **AI & ML Intern** [Infosys Springboard] Oct-Dec 2024
 - Executed comprehensive **EDA** on **300K+ credit card records**, applying data cleaning, correlation analysis, and outlier detection to inform robust **feature engineering**.
 - Engineered and optimized diverse **ML models (Random Forest, XGBoost, LightGBM, ensemble methods)** via **k-fold cross-validation** and **GridSearchCV**, achieving **92% accuracy** and **0.88 F1-score**.
 - Architected and deployed a scalable **RESTful API (Flask, Docker)** for real-time default prediction, achieving **sub-150ms average prediction latency** for risk assessment
 - Translated complex model predictions into actionable risk scores, enabling proactive intervention and **projecting a potential reduction of 5-7% in credit default losses** for financial institutions.

PROJECTS

- **Vendor Performance Data Analytics** [SQL, Python (Pandas, Matplotlib, Seaborn), Power BI] Sep 2024
 - Managed and cleaned **12.8M+ sales records** across 5 datasets using **SQL Python**, resolving **100+ data inconsistencies**.
 - Analyzed vendor inventory performance, pinpointing **top 10/bottom 5 vendors** and **3 key product optimization areas**.
 - Built an interactive **Power BI dashboard** with dynamic visualizations, significantly streamlining access to critical business insights.
 - Authored a data-driven report, projecting an 8% improvement in vendor delivery and 5% reduction in potential stock-outs.
- **AI-Trip Planner** [React, Google Generative AI, Firebase (Google OAuth, Firestore)] May 2025
 - Constructed an **AI-powered trip planner (React, Google Generative AI)** that swiftly generates personalized itineraries and hotel recommendations in under 30 seconds.
 - Integrated **Google Places API** to fetch real-time details and photos for over 100M global locations, enriching user travel planning.
 - Implemented secure user authentication via **Firebase Google OAuth** and managed trip data persistently in **Firebase Firestore**.
 - Engineered a fully responsive and intuitive user interface with React and TailwindCSS, ensuring optimal experience across all devices.

CERTIFICATIONS

- **Oracle Cloud Infrastructure 2025 Certified Data Science Professional**
- **GEN AI using IBM WATSONX**

EXTRA-CURRICULAR ACTIVITIES

- **DSA Problem Solving:**
 - Consistently practicing and solving Data Structures and Algorithms problems on platforms like LeetCode and HackerRank, significantly enhancing algorithmic thinking and code optimization skills.
- **Community Technology Initiative:** Consulted 3+ local businesses, leveraging data insights to implement digital tools that optimized workflows and boosted operational efficiency.

TECHNICAL SKILLS

- **Languages:** Python, C++, Java, MySQL, Javascript
- **Tools:** Jupiter Notebook, LaTeX, VS Code, GitHub, VMware, Postman, Google Colab
- **Skills:** Machine Learning, Data Processing, HTML, CSS, React.js, Node.js, Git, SQL, AWS cloud.