

Vinay Singh Chaudhary

DATA SCIENCE & FULL-STACK DEVELOPER

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 LinkedIn

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 IIT Madras BS-DS

 Updated: Sep 2026

TECHNICAL SKILLS

LANGUAGES & QUERY

Python SQL DAX
PySpark Java JavaScript
HTML/CSS

CLOUD & DATA PLATFORMS

Microsoft Fabric OneLake
GCP (GCS, BigQuery) Docker
CI/CD

DATA WAREHOUSING & MODELING

Semantic Modeling
Medallion Arch Delta Lake

ANALYTICS & BI

Power BI Advanced Excel
Business Analytics
Data Visualization

DATA SCIENCE & ML

Pandas NumPy Scikit-learn
Matplotlib
Feature Engineering EDA

AI / LLM ENGINEERING

RAG Systems LLM Agents
LangGraph FastAPI
Vector Embeddings

DATABASES & TOOLS

SQLite PostgreSQL MySQL
DuckDB BeautifulSoup
Playwright

PROFESSIONAL SUMMARY

Motivated fresher pursuing a **BS in Data Science & Applications from IIT Madras**, with completed Diplomas in both Programming and Data Science. Skilled in **full-stack web development, machine learning, RAG/LLM systems, agentic AI, and cloud deployment**. Eager to apply hands-on project experience and modern AI tooling knowledge in an international, fast-paced engineering environment.

PROJECTS

Trekking Management Application

Full-Stack Web App

- Built an end-to-end web app with user authentication, booking management, and admin dashboard.
- Designed RESTful APIs; integrated SQLite backend with a modern Vue.js frontend.

Python Flask Vue.js SQLite REST API

Household Services Platform

Full-Stack Web App

- Multi-role platform (customer, provider, admin) with service booking and review system.
- Implemented JWT authentication, Redis caching, Celery task queue, and role-based access control.

Python Flask Vue.js Redis Celery

Placement Portal & Online Quiz Platform

Full-Stack Web App

- Developed a placement portal supporting student applications and recruiter dashboards.
- Built an online quiz platform with auto-grading, countdown timer, and result analytics.

Python JavaScript SQL HTML/CSS

AI Agent Suite — GCS, Dataset Upload & Auto-Deploy

Agentic AI / Cloud

- Built autonomous AI agents for GCS bucket setup, dataset uploads, and quiz answering.
- Deployed full websites via AI agents with automated GitHub Pages pipelines.
- Applied LangGraph multi-agent orchestration with function/tool calling patterns.

LangGraph GCP FastAPI GitHub Actions Python

Production-Grade RAG System

LLM Engineering

- Built a full RAG pipeline with chunking strategies, hybrid search, and contextual retrieval.
- Evaluated pipeline quality using RAGAS framework; integrated semantic caching for efficiency.

RAG Vector DB HuggingFace RAGAS Python

Vehicle Parking Platform

Full-Stack Web App

- Designed a real-time vehicle parking slot management system with live availability tracking and booking.

Python SQL JavaScript

CERTIFICATIONS

- ✦ Microsoft Certified: Fabric Analytics Engineer Associate (DP-600) — Microsoft (Earned Sep 2026)
- ✦ IIT Madras Diploma in Data Science
- ✦ IIT Madras Diploma in Programming
- ✦ CCC — NIELIT (Computer Concepts)

INTERESTS

Teaching & Tech Education
• Content Creation • Social Media Management • Open-Source • AI Research

LANGUAGES

Hindi English

ML COMPETITIONS

Recipe Rating Prediction — NLP Challenge

Predicted ratings from user comments using TF-IDF, sentiment features, and gradient boosting (XGBoost/LightGBM).

Heavy Equipment Selling Price Prediction

Regression challenge on auction data; engineered features and tuned XGBoost/Random Forest pipelines to minimize RMSLE.

BUSINESS ANALYTICS PROJECT (BDM) — IIT MADRAS

- Collected 2+ years of real business data and identified key operational inefficiencies.
- Applied statistical analysis, regression modelling, and forecasting techniques.
- Delivered a structured analytical report with data-backed recommendations.

Python Advanced Excel Statistics Data Visualization

EDUCATION

BS — Data Science & Applications

IIT Madras (Online)
2023 – Expected 2027

Both Diplomas Completed

BA — Bachelor of Arts

Bundelkhand University, Jhansi
Completed 2023 | 66%

Class XII (PCM)

Hind Angel's Public School, Rath
2019 | 93%

Class X

Hind Angel's Public School, Rath
2017 | 10 CGPA