

# Sarthak Mahajan

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## EDUCATION

<b>Shri Vaishnav Vidyapeeth Vishwavidyalaya (SVVV), Indore</b>	<b>2023 – 2027</b>
B.Tech in Computer Science & Engineering (CSE)	GPA: 8.4
Higher Secondary (CBSE) — Class XII, PCM	2023   70%
Secondary (CBSE) — Class X	2021   75%

## TECHNICAL SKILLS

**Languages:** C, C++, Python, Java (Core), SQL, HTML5, CSS

**Libraries / Frameworks:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn

**Concepts:** Data Structures (Basics), Object-Oriented Programming

**Soft Skills:** Technical Documentation, Cross-functional Collaboration, Independent Learning

## EXPERIENCE & LEADERSHIP

### Google Developer Student Group (GDSC) — AIML Member

- Completed 10+ AI/ML workshops covering supervised learning, data preprocessing, and model evaluation.
- Worked in a 5–6 member team to clean datasets, apply ML algorithms, and evaluate model performance.

### AWS Cloud Club — Technical Lead

- Led technical initiatives for a community of 30+ students focused on AWS and cloud fundamentals.
- Organized 5+ workshops on EC2, S3, IAM, and cloud deployment basics.
- Mentored 10+ juniors on cloud concepts and DevOps fundamentals.

### VOID Hackathon — AIML Domain Winner

- Winner among 80+ teams in a 24-hour national-level AI/ML hackathon.
- Built an AI-driven solution and delivered a functional prototype within strict time constraints.

## PROJECTS

### NASA Meteorite Data Analysis | Python, Pandas, NumPy, Matplotlib

- Analyzed 45,716 meteorite records to identify patterns in fall type, mass distribution, and geographic locations.
- Performed exploratory data analysis and classification to uncover trends, improving data interpretability by 30%.
- Created visual dashboards and plots to communicate insights for data-driven research interpretation.

### AI Data Science Research Assistant | Streamlit, Gemini AI, Kaggle API

- Built an AI-powered platform for dataset search, auto-EDA, auto-ML, and report generation.
- Integrated Gemini API for natural-language insights and Kaggle API for automated dataset access.
- Enabled multi-model training, performance comparison, and reproducible Python code export.

### Rock vs Mine Classification | Scikit-learn, Logistic Regression, SVM

- Developed a binary classifier using 2,080 sonar signal samples.
- Achieved **96% accuracy** with 10-fold cross-validation and GridSearchCV optimization.

### Gold Price Prediction | Regression, Pandas, Scikit-learn

- Trained a regression model on 10+ years of historical gold price data.
- Improved prediction accuracy by **12%** through feature engineering.
- Achieved **R<sup>2</sup> = 0.92** with an **18% reduction in MSE**.

## RELEVANT COURSEWORK

Database Management Systems, Data Analytics, Data Visualization, Data Structures & Algorithms, Artificial Intelligence & Machine Learning

## ACHIEVEMENTS

- **Winner – VOID Hackathon** (AI/ML Domain) among 80+ teams.
- Solved 100+ Data Structures & Algorithm problems on HackerRank.

## CERTIFICATIONS

- Data Science Foundations – Level 1 — IBM (2025)
- Data Analytics Job Simulation — Deloitte Australia via Forage (2025)
- GenAI Powered Data Analytics Simulation — Tata via Forage (2025)
- Generative AI Foundations — AWS Academy (2025)
- Level 3: Generative AI — Google (2025)