Vats Pratap Singh

+91 6265935136 | vatspratapsingh2022@vitbhopal.ac.in | LinkedIn | GitHub

TECHNICAL SKILLS

Backend: C++, AI and ML

Frontend: AWS Amplify, HTML, CSS, React.js

Database: DynamoDB, Microsoft SQL Server

Tools & Technologies: Visual Studio, AWS Console

Cloud Services: Amazon Web Services (AWS)

EDUCATION

Vellore Institute of Technology, Bhopal — Aug 2022 – Aug 2026
B.Tech in Computer Science and Engineering (Cloud Computing and Automation)
CGPA: 8.40

Delhi Public School, Indore — March 2022
Senior Secondary (Grade XII), CBSE, Percentage: 74.6%

Delhi Public School, Indore — March 2020
High School (Grade X), CBSE, Percentage: 83.5%

PROJECTS

Cloud-Based Clickstream Analytics with AWS — Nov 2024 – Dec 2024
- **Project Description:** Built a serverless clickstream analytics solution for a restaurant to track real-time menu order insights using AWS-managed services.
- Implemented API Gateway, Lambda, and Kinesis Firehose to process over **10,000+ events/day** in real time.
- Stored and queried over **5 GB of structured data** using Amazon S3 and Amazon Athena.
- Designed dashboards in Amazon QuickSight, improving business decision speed by **30%**.

Parkinson's Disease Detection Using Predictive System — Jan 2024 – May 2024
- **Project Description:** Developed a machine learning system to diagnose Parkinson's disease using biomedical data.
- Used Support Vector Machine (SVM) and k-Nearest Neighbours (k-NN), achieving up to **91.2% accuracy**.
- Preprocessed and engineered features from **5,800+ voice samples**, improving model performance.
- Optimized hyperparameters using Grid Search, reducing error rate by **15%** from baseline.

Continuous Deployment Game using AWS CodePipeline and S3 — Jun 2024
- **Project Description:** Designed and deployed a memory-matching game using HTML, CSS, and JavaScript, where users flip meme cards to find matching pairs.
- Hosted the game on a static website using **Amazon S3**, enabling seamless web access.
- Configured a continuous deployment pipeline using **AWS CodePipeline** that automatically pulls code from GitHub and deploys it to S3 upon each code update.
- Automated deployment reduced manual steps and improved deployment speed by **90%**, achieving live updates in under **2 minutes**.

CERTIFICATIONS

IBM DevOps Fundamentals [**IBM**]	Apr 2025
AWS Solution Architect - Associate Certificate [**Ethnus**]	Apr 2025
DevOps on AWS Certificate [**Coursera**]	Dec 2024
AWS Cloud Technical Essentials Certificate [**Coursera**]	Mar 2024
HTML, CSS, and JS for Web Developers Certificate [**Coursera**]	Jan 2024

ACHIEVEMENTS

Completed **200 Days of Code** Challenge

Solved **185+** questions on **LeetCode**

Solved over **100** questions on **GeeksforGeeks**

Achieved **1783** Contest Rating on **GeeksforGeeks** and **1224** Contest Rating on **CodeChef**