

# Vats Pratap Singh

+91 6265935136 | [Mail](#) | [LinkedIn](#) | [GitHub](#)

## EDUCATION

**Vellore Institute of Technology, Bhopal**

October 2022 - September 2026

*Bachelor of Computer Science, Specialized in Cloud Computing and Automation (BSA)*

**CGPA : 8.35**

## SKILLS

**Backend:** C++, AI and ML

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

**Database:** DynamoDB, Microsoft SQL Server, MongoDB

**Tools & Technologies:** Visual Studio, AWS Console

**Cloud Services:** Amazon Web Services(AWS)

## PROJECTS

**Cloud-Based Clickstream Analytics with AWS**

November 2024 - December 2024

[Source](#)

- **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%**.
- Optimized architecture for **5x scalability** and reduced operational costs by **20%**.

**Parkinson's Disease Detection Using Predictive System**

January 2024 - May 2024

[Source](#)

- **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.

**CodePipeline Game Using Amazon Web Services**

June 2024

[Source](#)

- **Project Description:** Developed a memory-matching game hosted on AWS with continuous deployment.
- Hosted static website on S3 serving **1,000+ monthly users** with **99.9% uptime**.
- Implemented AWS CodePipeline to automate GitHub integration and S3 deployments in under **2 minutes**.
- Reduced deployment time by **90%**, enhancing efficiency and developer productivity.

## CERTIFICATIONS

IBM DevOps Fundamentals [IBM]

April 2025

AWS Solution Architect - Associate Certificate [Ethnus]

April 2025

DevOps on AWS Certificate [Coursera]

December 2024

AWS Cloud Technical Essentials Certificate [Coursera]

March 2024

HTML, CSS, and JS for Web Developers Certificate [Coursera]

January 2024

## ACHIEVEMENTS

Completed 200 Days of Code

Solved 185+ questions on LeetCode

Solved over 100 questions on GeeksforGeeks

Achieved 1783 contest rating on GeeksforGeeks