Aditya Pratap Singh

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EDUCATION

Sir Padampat Singhania Education Centre	90.4%
High School - 10th Grade	*March 2019*
Sir Padampat Singhania Education Centre	92.0%
Higher Secondary - 12th Grade	*March 2021*
VIT Bhopal University	8.55 CGPA
Bachelor of Technology	*2022-2026*

CERTIFICATIONS

Foundations of Cyber Physical Systems	January 2024 - April 2024
NPTEL	*Certification ID: NPTEL24CS27S652900630*
German − 1	August 2024 - November 2024
NPTEL	*Certification ID: NPTEL24HS130S851700305*
AWS Solution Architect - Associate Certification Program	January 2025 - April 2025
Ethnus	*Certification ID: 75DGLZLZ*
Adobe UI and UX(Graphics Design) Certification Program	January 2025 - April 2025
Ethnus	*Certification ID: B3JNJR9H*

PROJECTS

AGRO-BHARAT — *Web Development, Machine Learning and AI in Agriculture*   August 2024– April 2025
* Contributed to the development of an AI-powered crop recommendation system, achieving 90% accuracy.
* Assisted in building a web platform using Flask, Django, and JavaScript, resulting in 94% user satisfaction for real-time crop suggestions.
* Integrated satellite imagery and real-time weather data to support data-driven decision-making.
* Helped optimize algorithms and implement database indexing, reducing data processing time by up to 30%.
* Collaborated with a cross-functional team of 10 members to ensure smooth coordination between AI, web development, and data teams.

2D to 3D Model Converter using OpenCV | *Python, C sharp, Unity, OpenCV*   July 2025 – Present
* Developed a Unity application that converts 2D images into 3D models using OpenCV for feature detection in the form of edges.
* Optimised performance for real time 3D model genertaion
* Handled processing raw data with minimal user input
* Increased performance by refactoring edge detection from python to C#.

TECHNICAL SKILLS

Languages: Python, C++, C#, JavaScript, HTML/CSS

Technical Subjects: Data Structures and Algorithms, Database Management System, Operating Systems, Object Oriented Programming
Developer Tools: Git, VS Code, Visual Studio, PyCharm, Unity
Libraries: pandas, NumPy, Matplotlib, OpenCV, pygame