



# OM ASHRIT PATEL

op2780@srmist.edu.in | 8260195212 | 2026  
B.Tech, Computer Science and Engineering – Artificial Intelligence  
and Machine Learning  
Address : Rishabh Vihar, MODINAGAR, Gaziabad,U.P 201204



## Education

<b>SRM IST-Ghaziabad</b> B.Tech · Computer Science and Engineering – Artificial Intelligence and Machine Learning	2026 CGPA – 8.83/10
<b>DPS Sambalpur</b> Class XII – CBSE · Science (M,P,C,C) · Odisha , Sambalpur	2021 Percentage – 87.3%
<b>S.T Theresa English School</b> Class X – ICSE · Odisha , Sundargarh	2019 Percentage – 86.3%

## Experience

<b>Combat Vehicles Research and Development Establishment (CVRDE), DRDO</b>   <a href="#">Certificate link</a> Machine Learning Research Intern · Intern · Full-time (On-site Research Internship) Worked at CVRDE, DRDO on a machine learning research project titled “ <b>Residual Useful Life Estimation (Rule) for Enhanced Maintenance of Aeronautical Mechanical Filters</b> ”. Developed a system to predict the remaining life of mechanical filters using ML models trained on sensor data (pressure, flow rate, temperature). The project supported predictive maintenance for defense applications and was conducted under the mentorship of Scientist 'E', Mr. Chandrasekar R.P.	Dec 2024 – Jan 2025 Avadi, Chennai, India
<b>Shell India Markets Pvt Ltd / Edunet Foundation (in collaboration with AICTE)</b>   <a href="#">Certificate link</a> AI & Data Analytics Intern · Virtual Intern · Internship (Remote, Full-time) Completed a 4-week virtual internship on Artificial Intelligence and Data Analytics with a focus on Green Skills under the Skills4Future initiative by AICTE, Shell India, and Edunet Foundation. Gained hands-on exposure to sustainable data-driven solutions and AI applications, with guidance from experts across the technology and energy sectors.	Dec 2024 – Jan 2025 Virtual (India-wide)
<b>PERSONIFWY</b>   <a href="#">link</a> Machine Learning Intern · Virtual Intern · Internship (Remote, Full-time) Completed an industrial training program focused on Artificial Intelligence, under the mentorship of industry experts. Successfully built and deployed a <b>Text Classification model using TensorFlow</b> , showcasing NLP and deep learning skills in a real-world project environment.	Jul 2024 – Aug 2024 Virtual (India-wide)

## Projects

<b>Residual Useful Life Estimation of Aeronautical Mechanical Filters</b>   <a href="#">Link</a> CVRDE, DRDO (Under Scientist R.P. Chandrasekar) · Python, Pandas, NumPy, Scikit-learn, Matplotlib Developed an ML-based predictive maintenance system to estimate the remaining useful life (RUL) of aeronautical filters using sensor data (pressure, temperature, flow rate). The project helped enable proactive maintenance decisions at CVRDE, DRDO, under the mentorship of a senior defense scientist.	Dec 2024 – Jan 2025 Machine Learning, Predictive Maintenance
<b>VisuPath – AI-Based Real-Time Evacuation Route Visualizer for Smart Buildings</b>   <a href="#">Live link</a> Independent Project · JavaScript, HTML5 Canvas, Dijkstra’s Algorithm, A* Search, BFS, DFS, CSS Built a web-based tool to visualize real-time evacuation routes in smart buildings using pathfinding algorithms like A*, Dijkstra, BFS, and DFS. Implemented with JavaScript and HTML5 Canvas, enabling dynamic obstacle placement and animated route simulation for emergency planning.	Jun 2025 – Jul 2025 Artificial Intelligence, Pathfinding Algorithms, Smart Infrastructure

## Personal Developer Portfolio Website | [Portfolio](#)

Independent Project · HTML, CSS, JavaScript, GitHub Pages

May 2025 - Present

Web Development, Frontend Design

Created and deployed a responsive developer portfolio using HTML, CSS, and JavaScript. Showcases projects, skills, and resume in a clean, interactive layout.

## LoanWise – Indian Loan Document Analyzer + EMI Fraud Alert

Independent Project · Python, Tesseract OCR, HuggingFace Transformers, Streamlit

Jul 2025 - Present

AI/ML, FinTech, Document Analysis

Building an AI-powered tool that scans Indian loan documents to extract key details like EMI, tenure, and interest rate, and flags hidden fraud patterns or miscalculations. Uses OCR and NLP to analyze scanned PDFs and generate human-friendly summaries with alerts.

## Skills

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**Programming Languages:** Python, C/C++, Java, JavaScript, HTML/CSS

**Languages and Frameworks:** Python, JavaScript, TensorFlow, scikit-learn, HuggingFace, Streamlit

**Tools and Technologies:** Git, GitHub, OpenCV, Tesseract OCR, Jupyter, Google Colab, VS Code

**Areas of Interest:** Computer Vision, Machine Learning, Computer Vision, AI Product Development, Smart Systems & Automation, Robotics

## Languages

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English [Professional Working Proficiency], Hindi [Native Proficiency], Odia [Native Proficiency], French [Fundamental Proficiency]

## Links

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[LinkedIn](#), [GitHub](#)