

# Ojasv Singhal

CONTACT

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Portfolio Website: <https://ojasvportfolio.vercel.app/>

PROFESSIONAL EXPERIENCE	<b>ML Engineer and Co-founder</b>	<b>Aug 2024 – April 2025</b>
	<div>Xander.co</div> <div>Co-Founded a ML startup, Xander. Had the responsibility to manage the entire team and also as a machine learning engineer.</div> <div>Linkedin: <a href="https://www.linkedin.com/company/xander-corp01">https://www.linkedin.com/company/xander-corp01</a></div>	
	<b>AI Intern</b>	<b>May 2024 – Aug 2024</b>
	<div>BuildFastWithAI</div> <div><ul style="list-style-type: none"><li>Assisted in creating AI Applications using AI agents, APIs and Langchain.</li><li>Implemented RAG using Langchain, Vector Stores and other technologies.</li><li>Supported the creation of Educhain: <a href="https://www.educhain.in/">https://www.educhain.in/</a></li></ul></div>	

EDUCATION	<b>Maharaja Agrasen Institute of Technology   2022–2026</b>
	<div>BTech AI and ML</div> <div>CGPA: 8.875</div>
	<b>Indian Institute of Technology, Madras   2022–2026 (Credit Completion in Aug 2025)</b>
	<div>Bachelor of Science(BS) in Data Science and Applications</div> <div><ul style="list-style-type: none"><li>CGPA: 9.22</li><li>Minor in Finance</li></ul></div>
	<b>St. Xavier’s School, Delhi   2010–2022</b>
	<div>High School Diploma</div> <div><ul style="list-style-type: none"><li>Physics, Chemistry, Mathematics, Computer Science, English</li><li>12<sup>th</sup> – 90.8%</li><li>10<sup>th</sup> – 92.8%</li></ul></div>

SKILLS	<div><ul style="list-style-type: none"><li><b>Programming Languages:</b> Python, Java, C, JavaScript, HTML, CSS, Bash</li><li><b>Data &amp; Analytics:</b> MS Excel, SQL(MySQL, PostgreSQL, SQLite), Data Analysis, Data Engineering, Data Science, Data Analytics</li><li><b>Machine Learning &amp; AI:</b> Machine Learning, Deep Learning, Neural Networks, Natural Language Processing (NLP), Artificial Intelligence, Computer Vision, MLOps, LLMOps</li><li><b>Tools &amp; Frameworks:</b> Flask, Unreal Engine, Tableau, REST API</li><li><b>Mathematics &amp; Modeling:</b> Statistics, Statistical Modeling, Mathematics, Algorithms</li><li><b>Software &amp; Platforms:</b> MATLAB, DBMS (Database Management Systems)</li><li><b>Web Development:</b> HTML, CSS, JavaScript, Vue.js, Node.js, React.js</li><li><b>Others:</b> Data Structures, Computer Networks, SDLC</li></ul></div>
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## PROJECTS

- **Image/Text to 3D Model Generator:** Built a web app using OpenAI's Shap-E in Jupyter Notebook to convert images and text into 3D models (.obj/.stl).
- **Decentralized Voting on Ethereum:** Developed a blockchain-based voting system using JavaScript and Ethereum smart contracts.
- **DL Models Suite:** Implemented deep learning models for text, vision, and speech tasks using Python and Jupyter.
- **GenAI LMS:** Created a Generative AI-integrated Learning Management System with Vue.js, Flask, and Gemini for Python education.
- **Langchain Question Generator:** Developed a RAG app using Langchain and LLaMA 2 to auto-generate Q&A from PDF documents.
- **Legal Assistant:** Built a JavaScript-based tool for assisting with legal document review and automated Q&A.
- **RAG Document System:** A Retrieval-Augmented Generation system for querying PDF documents using AI. Upload PDFs, build a searchable knowledge base, and ask questions to get AI-generated answers with source citations. Integrated with PyTest for comprehensive testing.
- **Custom Object Detection:** Provides an implementation for training and evaluating a custom object detection model using the Pascal VOC 2007 dataset. It leverages PyTorch and torchvision libraries to build and train a YOLO-based neural network architecture.
- **Grocery Store web app:** Built a grocery store application using vue.js for the frontend and Flask+sqlite for the backend.