

ADITYA DESHPANDE

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WORK EXPERIENCES

Software Intern Internship <i>Ennovate Software and Consulting Pvt. Ltd</i> - Completed a 6-month internship focused on ASP.NET development, enhancing web applications utilizing the .NET framework. - Enhanced backend development skills by implementing secure authentication mechanisms and optimizing application performance through effective query handling and code refinement. Technologies / Skills Used : <i>ASP.NET, .NET Framework, Microsoft SQL Server, HTML, CSS, JavaScript</i>	Jan 2024 - Jul 2024 <i>Hybrid</i> • <i>Pune, Maharashtra</i>
Technical Head Internship <i>E-CELL MIT WPU</i> - Led a technical team of 6 to design and deploy solutions, resulting in significant reductions in manual effort and enhanced operational efficiency. - Delivered 4+ events/projects on time by streamlining workflows and improving cross-team coordination. Technologies / Skills Used : <i>Python, Flask, PostgreSQL, SQLite, HTML, CSS, JavaScript</i>	Jan 2023 - Jan 2024 <i>Hybrid</i> • <i>Pune, Maharashtra</i>

PROJECTS

ModelForge - End-to-End ML Workflow and Explainability Platform  Github <i>Individual Project</i> - Developed ModelForge, a comprehensive ML lifecycle platform utilizing Streamlit and FastAPI. Implemented 8+ core ML workflow features, including preprocessing, feature engineering, hyperparameter tuning, AutoML-style model comparison, experiment tracking, prediction, and SHAP/LIME explainability along with support for 5+ ML Algorithms. - Engineered asynchronous training and explainability pipelines with Redis queues and dedicated background workers. Integrated stage-aware progress and ETA tracking, PostgreSQL-backed metadata management, shared artifact storage, secure bcrypt-based authentication, and a Groq-powered project-aware LLM assistant. Technologies / Tools Used : <i>Python, Streamlit, FastAPI, PostgreSQL, Redis, SHAP, LIME, Groq API</i>	Dec 2025 - Mar 2026
BudgetBuddy AI – AI-Powered Expense Management System  Github <i>Individual Project</i> - Developed a Flask-based expense management system using PostgreSQL, implementing 10+ core expense management features, including secure authentication with Flask-Login, CSRF protection, OCR-based receipt scanning, automated expense tracking, interactive dashboards, and category-wise analytics. - Implemented 6+ collaborative budgeting features, including family workspaces, role-based access control, email invitations, CSV export, and AI-driven financial insights through a voice-enabled chatbot powered by the Gemini API. Technologies / Tools Used : <i>Python, Flask, PostgreSQL, OCR, Gemini API</i>	Jul 2025 - Oct 2025
Indian Sign Language Detection and Processing System <i>Lead Developer</i> - Developed a real-time ISL fingerspelling-to-text system using a custom ResNet50V2 model, achieving 99.06% accuracy. - Implemented LSTM-based sentiment analysis, enabling multilingual translation for over 30 languages, along with audio synthesis and transcript generation to enhance accessibility. Technologies / Tools Used : <i>ResNet50V2, LSTM, OpenCV, mtranslate, Google Text-to-Speech, playsound, win32, Python-docx</i>	Jan 2024 - Jun 2024
Web Development Projects <i>Web Developer</i> Built and deployed 4+ full-stack web applications with responsive UIs, robust backend logic, secure authentication, REST APIs, and seamless database integration. Designed end-to-end web solutions spanning frontend, backend, database design, and deployment, implementing 20+ production-ready features across multiple projects. Technologies / Tools Used : <i>HTML, CSS, JavaScript, Flask, PostgreSQL, React</i>	Jan 2023 - Dec 2023

SKILLS

Programming And Data Technologies :	C, C++, Python, Machine Learning, Data Science, Artificial Intelligence, Data Analytics
Web Frameworks :	HTML, CSS, JavaScript, Flask, FastAPI, React
Databases :	SQLite, PostgreSQL, MySQL
Tools & Platforms :	Git, GitHub, Docker, PowerBI, GitHub Actions

EDUCATIONS

MIT World Peace University Pune, Maharashtra <i>Btech CSE(AI&DS)</i>	Aug 2024 - Jul 2027 <i>CGPA : 9.28</i>
Mit World Peace Univeristy Pune, Maharashtra <i>Btech Diploma (AI&DS)</i>	Aug 2021 - Jun 2024 <i>CGPA : 9.66</i>
Delhi Public School Pune, Maharashtra <i>School</i>	Jan 2008 - May 2021 <i>CGPA : 94.88 %</i>

AWARDS & ACHIEVEMENTS

NPTEL Course Excellence NPTEL Achieved Top 1% rank nationwide in NPTEL's "Python for Data Science" course with a score of 88%, receiving Topper Distinction.	Oct 2025
Research Paper Publication ICCUBEA 2024 (PCCOE) Published a research paper titled "Bridging the Gap: ISL Fingerspelling to Text, Sentiment Analysis and Language Conversion" at an IEEE-indexed international conference.	Dec 2024
Dataset Publication IEE Dataport Published a 14,000+ image handmade dataset for Indian Sign Language (ISL) finger spelling (A-Z, 1-9) on IEEE DataPort, achieving 17,500+ downloads.	Feb 2025
Smart India Hackathon 2023,2024,2025 AICTE Top 30 National Round Nominee for 3 consecutive years	Aug 2025

CERTIFICATIONS

Python For Data Science NPTEL	Oct 2025
Machine Learning A–Z Udemy	Jul 2025
Supervised Machine Learning: Regression and Classification Coursera	Apr 2024
Data Analytics Job Simulation Deloitte - Forage	Jan 2026
C Programming Udemy	Jul 2023