

BHAVYA JHA

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WORK EXPERIENCE

Software Development Intern, Antier Solutions, Mohali, India May 2025 — Jul 2025

Tools & Technologies: Django, Python, Celery, Redis, MySQL, gRPC, Docker, Gemini API, AWS S3, LangChain, Qdrant, Neo4j, Recommender Systems, Postman, Jira, Swagger, n8n, Boto3, Gradio, MCP, Keka, EWMS.

- Architected an AI-powered video dubbing pipeline using Dockerized microservices and Open Source Models for multilingual content.
- Engineered a personalized course recommendation engine for LERN360, utilizing SQL and RAG pipelines with Qdrant and Neo4j.
- Developed scalable containerized RESTful APIs and asynchronous task queues to support 1,000+ concurrent users.
- Deployed enterprise-grade LLM chatbots with LangChain and RAG for internal support tools.
- Automated social media workflows by integrating blockchain RSS feeds with LinkedIn via n8n.
- Created a Gradio interface for AI model testing, increasing accessibility for non-technical stakeholders.

Digital Transformation Intern, Pratham Education Foundation, New Delhi, India May 2024 — Jul 2024

Tools & Technologies: Python, Flask, Shell Scripting, Linux (Ubuntu), Command Line, Network Configuration, HTML/CSS.

- Engineered and deployed an offline educational platform on Raspberry Pi 3B+, serving over 500 learners in remote areas.
- Automated hotspot setup and management using Python and Shell scripts.
- Collaborated with cross-functional teams to understand data collection and analysis workflows.
- Resolved hardware and software issues independently, ensuring continuous platform operations.
- Researched AI-enabled translation solutions to address language barriers in rural workshops.

EDUCATION

SVKM's NMIMS University, Chandigarh, India - B.Tech, CSE (Data Science Specialized) - (GPA: 3.27 / 4.00) 2022 — 2026

President, STME Technical Club (Matrix) - led, hosted, and organized 30+ technical initiatives and hackathons. (since Oct '22)

Active Member, ACM Student Chapter - engaged in coding competitions, workshops, and peer learning. (since Nov '22)

Member, Placement Cell (since July '25)

CERTIFICATIONS

Google Data Analytics Specialization, Google, Coursera

Python for Data Science, AI, and Development, IBM, Coursera

Machine Learning using Python, IBM, Coursera

Data Visualization with Power BI, Great Learning Jun 2024

Design Thinking for Innovation, University of Virginia Darden School of Business

AWS Academy Graduate, Amazon Web Services (AWS)

PROJECTS

Bookstore Management System, [Link](#) Aug 2025 — Aug 2025

- Developed a full-stack bookstore management platform with RESTful FastAPI backend and a responsive static frontend.
- Implemented CRUD operations for books with price and genre fields, collection sorting, and real-time statistics.
- Integrated interactive API documentation and JSON-based data storage for easy deployment and extensibility.
- Tools and technologies: FastAPI, Pydantic, Uvicorn, HTML, CSS, JavaScript
- Result: Complete management system supporting efficient book cataloging and user-friendly web interface.

Startup Idea Analyzer Agent , [Link](#) Jul 2025 — Aug 2025

- Built an AI-powered platform for automated startup research using market data, competitor profiling, and social sentiment.
- Designed modular MCP-based workflows with LangGraph and Pydantic for structured multi-step analysis.
- Developed Gradio web UI & CLI with multi-format report export (TXT, PDF, DOCX).
- Integrated SERP, Reddit, Twitter, and Polygon APIs for enriched market and trend insights.
- Tools and technologies: Python, LangGraph, LangChain, Gradio, Pydantic, Model Context Protocol (MCP), uv
- Result: Cut manual research time by approximately 70%, delivering actionable insights in under five minutes

Movie Genre Classifier , [Link](#) Jan 2024 — Apr 2024

- Trained an ensemble model (Linear SVC + Logistic Regression) on over 54,000 movie synopses, achieving 85% accuracy.
- Applied NLP preprocessing (stemming, lemmatization, and TF-IDF vectorization) for optimal feature extraction.
- Used Data Version Control (DVC) to ensure reproducible training and efficient data management.
- Tools and technologies: Python, Scikit-learn, DVC (DagsHub), and Hugging Face Spaces
- Result: Genre classification system with 85% accuracy.

SKILLS

- Programming & Core Languages:** Python, R, SQL
- AI/ML & Data Science:** Deep Learning, Generative AI, Computer Vision, NLP, RAG, Recommender Systems, Data Wrangling, Power BI, MS-Excel
- Frameworks & Libraries:** Flask, Django, FastAPI, LangChain, Gradio, Streamlit, OpenCV, Scikit-Learn, TensorFlow, NumPy, Pandas, NLTK, Pydantic
- Backend & DevOps:** RESTful APIs, Async Programming, Celery, Docker, AWS, Redis, MCP
- Databases:** MySQL, Neo4j (Knowledge Graphs), Qdrant (Vector Database)
- Tools & Platforms:** JIRA, Postman, Figma, Dagshub, n8n, Keka, EWMS, Github, Git, Hugging Face
- Soft Skills:** Communication, Problem-Solving, Adaptability, Leadership

AWARDS & ACHIEVEMENTS

<b>3rd Place - Technovate'25 Hackathon, Google Developer Student Group, UIET Chandigarh</b> Developed e-learning platform leveraging Gen AI to support at-risk students, competing against 100+ teams.	<b>Apr 2025</b>
<b>Mentee, Pragati Path to Future, Cohort 3, Infosys Springboard</b> Completed 12-week professional & leadership program, with mentorship from industry experts and a 1-week campus immersion at Infosys Chandigarh DC covering soft skills and GenAI.	<b>Feb 2025</b>
<b>Top 30%, NMIMS Research Embedded Learning Symposium</b> Presented a Student Performance Predictor project, showcasing skills in predictive modeling and data analysis, ranked in the top 30% of submissions.	<b>Jan 2025</b>
<b>Speaker, NMIMS University, Chandigarh</b> Delivered data analytics workshop attended by 60+ participants, fostering practical learning.	<b>Aug 2024</b>
<b>3rd Place - Catalyzing Concepts, ADVITIVA'24, IIT Ropar</b> Demonstrated rapid analytical and presentation skills by delivering insights from a research paper with only 10 minutes of preparation.	<b>Feb 2024</b>
<b>Finalist, Startup Entrepreneur Series</b> Recognized as finalist in competitive startup entrepreneurship series, demonstrating innovation and business acumen.	<b>Dec 2023</b>

PUBLICATIONS

<b>PAGE.BHAVYA - Independent Writer: Exploring AI, Data, and Personal Growth, Substack</b> <ul style="list-style-type: none"><li>Published 7+ articles on AI advancements, decision and cognitive science, and productivity techniques</li><li>Achieved 2,000+ views and 350+ subscribers, fostering an active tech community around emerging technologies</li></ul>	<b>Nov 2024</b>
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VOLUNTEERING

<b>Volunteer &amp; HR Intern, Aashray Foundation, Chandigarh</b> Coordinated and delivered educational workshops for the "Pathshala" initiative, benefiting over 50 students while managing volunteer logistics.	<b>May 2023 — Jun 2024</b>
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