



Rohit Gomes

AI Engineer | Deep Learning Enthusiast | ML Developer | Aspiring Researcher | Final-Year B.Tech CSE (AI-ML)

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Summary AI Engineer specializing in machine learning and deep learning, with experience in building and deploying end-to-end ML pipelines. Proficient in Python, with strong practical skills in PyTorch, scikit-learn, and structured data modeling. Experienced in developing scalable solutions for classification and computer vision tasks, and in leading both academic and applied AI projects from concept to deployment.

Education	Brainware University	July 2022 - Present
	Computer Science and Engineering (Specialization: AI & ML)	Bachelor of Technology (B.Tech)
	8.7 GPA (Current)	
	St Stephen's School Dum Dum	2022
	72.25%	Higher Secondary (Class 12 – Science Stream)
	St Stephen's School Habra	2020
	77.8%	Secondary Education (Class 10)

Projects	<u>Research Agent (arXiv + IBM watsonx.ai Granite)</u>	August 2025
	A Streamlit-powered research assistant for literature review and report generation.	
	Developed an AI-driven tool that automates topic-based arXiv searches, summarizes papers using IBM <u>watson x.ai</u> Granite, and generates reviewer-style notes. Implemented one-click export to TXT, DOCX, and PDF formats with caching, retry logic, and secure secret handling. Designed for fast literature reconnaissance and lightweight paper triage.	
	Python, Streamlit, arXiv API, IBM watsonx.ai Granite, ReportLab, python-docx	
	<u>ML Model Evaluation Dashboard</u>	July 2025
	A modular machine learning evaluation tool with an interactive Streamlit frontend.	
	A Streamlit tool for no-code ML model testing. Supports CSV upload, target selection, model comparison, PCA, and feature selection for quick visual evaluation.	
	Machine Learning, Streamlit, Model Evaluation, PCA, Feature Selection, Logistic Regression, Scikit-learn, Pandas, Matplotlib, Dashboard, Data Analysis	
	<u>Few-Shot Learning Toolkit (Library + Web UI)</u>	July 2025
	A Python library and Streamlit app for rapid few-shot image classification and model export.	
	Addressed the complexity of testing few-shot models by creating a PyPI library to abstract support–query workflows, and a companion web UI that enables fast uploads, predictions, and interactive model export without coding.	
	Python, PyTorch, Streamlit, PyPI Packaging, Few-Shot Learning	

Skills	Python	Machine Learning	Deep Learning
	Core language for ML/DL projects.	Built models for regression, classification & clustering	Used CNNs for image-based tasks
	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
	NumPy, Pandas, Scikit-learn, PyTorch, Matplotlib	Random Forest, SVM, Logistic Regression, KMeans	PyTorch, CNN, MLP, Dropout, FC
	Data Processing	SQL & MySQL	C++
	Cleaned, scaled, and reduced features	Queried and linked structured data	Used in academic OOP and logic tasks
	● ● ● ● ●	● ● ● ● ●	● ● ● ● ●
	PCA, StandardScaler, Encoding	Joins, Filtering, MySQL	OOP, Loops, Arrays, Vectors

Languages	<div>English</div> <div><div></div><div></div><div></div><div></div><div></div></div> <div>Bengali</div> <div><div></div><div></div><div></div><div></div><div></div></div> <div>Hindi</div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>	
Interests	<div>Deep Learning</div> <div>CNN, Transfer Learning, PyTorch, Image Tasks, Model Optimization</div> <div>Research & Innovation</div> <div>Few-Shot Learning, MAML, Meta-Learning, Vision Papers</div>	<div>Computer Vision</div> <div>Object Detection, Image Classification, Edge AI, MobileNetV2, ResNets, DenseNets</div> <div>AI for Real-World Impact</div> <div>AgriTech, FinTech, Healthcare, ML Pipelines, Automation</div>
Certifications	<div>Getting Started with Artificial Intelligence</div> <div>IBM SkillsBuild</div> <div>This credential earner demonstrates a foundational understanding of Artificial Intelligence concepts and processes, including common applications of AI, and generative AI. The individual has worked with generative AI tools to refine and create prompts.</div> <div>Journey to Cloud: Envisioning Your Solution</div> <div>IBM SkillsBuild</div> <div>emonstrates knowledge of cloud technologies, delivery models (IaaS, SaaS, PaaS), and digital transformation strategies, with hands-on experience deploying a pilot app on IBM Code Engine.</div>	
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