

ANKAN BERA

Ramakrishna Mission Vivekananda Educational and Research Institute , Belur

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My experience combines a strong foundation in applied mathematics with end-to-end development of AI and data systems. I excel at the intersection of theory and execution, moving fluidly from algorithm design to deployment.

EDUCATION

Ramakrishna Mission Vivekananda Educational and Research Institute <i>Master of Science in Data Science and AI </i>	2025 – 2027 <i>Belur</i>
Midnapore College (Autonomous) <i>Bachelors of Science in Computer Science CGPA : 7.63</i>	2022 – 2025 <i>Midnapore</i>

PERSONAL PROJECTS

AI-Powered SQL Chatbot for Easy Data Access 🌐 <u>self</u>	Nov.2025 - Dec 2025
<ul style="list-style-type: none">Developed an LLM-powered SQL chatbot using LangChain that lets non-technical users query databases in natural language and receive real-time results.Enabled non-technical teams (HR, Marketing, Operations) to access and analyze company data without writing SQL queries.Tools: Python, Langchain, OpenAI.	
Synthetic Defect Image Generation using AI 🌐 <u>Self</u>	-2024
<ul style="list-style-type: none">Objective: Developed Synthetic Defect Image Generation for Low-Sample Datasets with Web App PlatformApproach: Applied advanced generative models (GAN, Diffusion) to synthesize realistic defect images. Augmented the original defect dataset with generated images to improve classifier performance. Developed a full-stack web app to allow users to upload images, train models, generate defects, and download results.Results: Created defect images with 88% FID score, showing the images are realistic and high-quality.Tools: Python, Pytorch, Scikit-learn, NextJs, FastAPI.	

Credit Risk Modeling using Machine 🌐 <u>Self</u>	Jan.2026
<ul style="list-style-type: none">Objective: Built a credit risk prediction system to assess loan default probability using machine learning.Approach: Performed data preprocessing and exploratory analysis, then trained classification models to predict credit risk based on customer financial and behavioral data. Evaluated multiple models and selected the best-performing one using standard metrics.Results: Achieved reliable prediction performance, enabling accurate identification of high-risk and low-risk applicants.Tools: Python, Scikit-learn, Pandas, NumPy, Matplotlib.	

COURSEWORK / SKILLS

Coursework: Data Structure and Algorithm Using Python, Machine Learning, Deep Learning, NLP, Probability & Statistics, SQL.

Languages: Python, SQL, C, Java, JavaScript.

AI Libraries/Frameworks: PyTorch, Keras, NumPy, Pandas, Scikit-Learn, Matplotlib, Seaborn , Tensorflow.

Web Technologies: NextJS, FastAPI, Django , TailwindCSS.

Databases: MySQL , PostgreSQL.

Generative AI: Langchain.

EXPERIENCE

Freelance Developer – E16 Classes:	Sep . 2025
<ul style="list-style-type: none">Developed and maintained web-based educational tools and platforms.Implemented features for quizzes, student interaction, and content management	

ACHIEVEMENT

- CUET-PG 2025 (Computer Science) – Qualified**
- Mentored 20+ students in cracking the entrance exams of RKMVERI.