

Deepak Kumar

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SKILLS

Languages: Python, Java, C++, C, JavaScript, TypeScript, SQL
AI/ML & Data Science: Machine Learning, Deep Learning, NLP, Computer Vision, RAG Pipelines, LoRA Fine-Tuning, Data Analysis
Frameworks/Libraries: TensorFlow, PyTorch, Scikit-Learn, Pandas, NumPy, Matplotlib, Panel, hvPlot, React.js, Next.js, Node.js, Express.js
Tools/Platforms: Git, GitHub, Docker, AWS, Vercel, Render, Jupyter, MongoDB, PostgreSQL, MySQL, REST APIs
Soft Skills: Problem-Solving, Team Collaboration, Time Management, Multitasking, Self-Learning

PROJECTS

- Loan Assistant | AI-Driven Financial Platform | [GitHub](#)** Apr' 2026
- Built an AI-powered Indian student loan repayment platform on the MERN stack with Next.js.
 - Implemented a Retrieval-Augmented Generation (RAG) pipeline over Indian student-loan policy documents, grounding every repayment recommendation in retrieved source material instead of model recall.
 - Fine-tuned the response model using LoRA parameter-efficient adapters to specialize it for loan-domain queries at a fraction of full fine-tuning cost.
 - Generated precise, personalized loan repayment plans by combining the retrieval layer with the Google Gemini AI API.
 - Tech used - Next.js, React.js, Node.js, Express.js, MongoDB, Tailwind CSS, Google Gemini AI, RAG, LoRA
- Student Mental Health Analysis Dashboard | [GitHub](#)** May' 2026
- Analyzed university student mental-health survey data and shipped an interactive dashboard using Panel and hvPlot.
 - Cleaned noisy survey data and engineered risk-focused features including a high-risk flag, a composite mental-health score, age groups, and CGPA categories.
 - Ran statistical summaries and hypothesis tests to validate relationships between stress, CGPA, and residence type.
 - Tech used - Python, Pandas, NumPy, Panel, hvPlot, Jupyter

TRAINING/ EXPERIENCE

- Eduniketan Pvt. Ltd. | AI & ML Basics to Advanced (Career Ready Programme)** Jun' 2026 – Jul' 2026
- Completed a 45-day summer training programme in AI and Machine Learning under TheEduBootCamp, conducted by Eduniketan Private Limited.
 - Worked through the end-to-end machine learning workflow: data preprocessing, feature engineering, model training, hyperparameter tuning, and evaluation metrics.
 - Built hands-on modules in Python using NumPy, Pandas, and Scikit-Learn, progressing from core ML algorithms to advanced AI concepts.

CERTIFICATES

- Oracle Cloud Infrastructure 2026 Certified AI Foundations Associate | [Oracle](#) Jun' 2026
- Oracle AI Database Certified Foundations Associate | [Oracle](#) Jun' 2026
- Oracle Data Platform 2025 Certified Foundations Associate | [Oracle](#) May' 2026

ACHIEVEMENTS

- Solved **250+** Data Structures and Algorithms problems on LeetCode, strengthening algorithmic problem-solving in C++ and Python. 2025 – Present
- Designed and shipped a personal portfolio at deepak179.dev, built with Next.js and TypeScript and deployed on Vercel. 2026

EDUCATION

- Lovely Professional University** Jalandhar, Punjab
Bachelor of Technology - Computer Science and Engineering; CGPA: 8.64 Aug' 2024 – Present
- Daudnagar College** Aurangabad, Bihar
Intermediate (Science), Bihar School Examination Board; Percentage: 77.8% Apr' 2020 – Mar' 2022