

PROFILE SUMMARY

M.Sc. Data Science graduate skilled in data analysis, machine learning, and deep learning, focused on leveraging data to Drive business growth. Experienced in transforming complex data into insights that inform strategic decisions and create value. Committed to solving real-world challenges and delivering measurable impact.

EDUCATION

Lavasa, India	CHRIST (Deemed To Be University), Lavasa	Sep 2022 – May 2024
<ul style="list-style-type: none"> Major: Masters (M.Sc.) in Data Science, <u>CGPA: 3.4/4</u> Programming MOOCs: Algorithms & Data Structures, OOP, DBMS. Hands On: Machine Learning, Deep Learning, Cloud Computing, Business Analytics, Natural Language Processing, Hadoop. Theory Courses: Advanced Linear Algebra, Graph Theory, Probability and Statistics, Time Series Analysis. 		
Kolkata, India	Presidency University	Aug 2018 – Jun 2021
<ul style="list-style-type: none"> Major: Bachelors (BSc Hons) in Mathematics, <u>CGPA: 7/10</u> Key Courses: Probability and Statistics, Number Theory, Graph Theory, Combinatorics, Linear Algebra. 		

SKILLS

PROGRAMMING LANGUAGE	Python, SQL, Java
DATABASES	MySQL, PostgreSQL, MongoDB
TOOLS & TECHNOLOGIES	Power BI, Tableau, Excel, Git, VS Code, Jupyter, Docker, Kubernetes
CLOUD PLATFORMS	Azure, GCP, AWS
FRAMEWORKS	RAG, LangChain, Huggingface, LlamaIndex, TensorFlow, PyTorch
LIBRARIES	NumPy, Pandas, Matplotlib, Scikit-learn, NLTK, Spacy, Keras, OpenCV, Flask, Streamlit

PROFESSIONAL EXPERIENCE

AI Developer Intern (R&D Team)	Jan 2024 – Mar 2024
IPREP Learning Solutions PVT LTD	Faridabad, India (Remote)
<ul style="list-style-type: none"> Developed a Question Generation System to ensure academic integrity by creating diverse, consistent difficulty questions and user-friendly interfaces via Streamlit, achieving above 90% success rate. Created and deployed an Auto Grading Bot using fine-tuned Llama-2, Mistral-7B, gpt-4 turbo integrated with Streamlit for accessibility. Enabled the Auto Grading Bot to analyze student solutions with 92% accuracy, assign marks, and provide detailed feedback. Fostered academic growth with the Auto Grading Bot's precise feedback, improving student performance by 85%. 	
<div> Python Data Mining NLP LangChain Prompt Engineering Streamlit </div>	

PROJECTS

Document - ASK
<ul style="list-style-type: none"> Developed a web app that enhances PDF navigation by using deep learning and NLP techniques for text extraction, previews, and real-time question-answering, streamlining document exploration and retrieval. The app leverages technologies like BERT and Flask to deliver an efficient and interactive user experience.
Purchase & Billing System
<ul style="list-style-type: none"> Built a web app using Python and PostgreSQL to manage administrative tasks, tracking purchases, and generating tax invoices through modules for suppliers, products, and purchase details, utilizing a robust backend database.
Dynamic Advertisement Overlay
<ul style="list-style-type: none"> Engineered a system that integrates dynamic advertisements into videos with 91% accuracy, leveraging OpenCV and TensorFlow to identify key regions and manage occlusions, significantly improving video editing and audience engagement.
Run-Scorer
<ul style="list-style-type: none"> Designed a predictive model for IPL innings scores, achieving 94% accuracy with machine learning techniques like Random Forest and Gradient Boost Regressor, aiding in strategic decision-making within sports analytics.
Life Expectancy Forecasting: A Data-Driven Exploration
<ul style="list-style-type: none"> Designed a model to forecast global life expectancy trends with 98% accuracy, applying techniques such as PCA and Random Forest. This analysis offers valuable insights to guide the formulation of effective public health policies.

RESEARCH PROJECT

Feature Enrichment in Few-Shot Object Detection using Cross Transformer Built upon R-FCN.
<ul style="list-style-type: none"> Achieved significant feature enrichment in few-shot object detection using a Cross Transformer built upon R-FCN, demonstrating effectiveness with a 2-shot scenario on the MSCOCO dataset.

EXTRACURRICULAR

- 3rd Position in Hackaverse 2.0, 24-hour Hackathon competition.
- 2nd Position in A-la-Data-Carte: Dashboard creation competition.

CERTIFICATIONS & COURSES

- Basic to Advanced: from Perceptrons to Diffusion Models. (ISI, Kolkata)
- Microsoft Azure Data Scientist Associate (DP-100). (Microsoft)
- Deep Learning Specialization. (DeepLearning.AI)
- Generative AI with Large Language Models. (AWS & DeepLearnig.AI)
- Cloud Infrastructure Foundations Associate. (Oracle)