

BHASKAR SINGH

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Portfolio: <https://bhaskars-portfolio.vercel.app>



EDUCATION

- Graphic Era Deemed to be University, Dehradun, Uttarakhand
- Bachelor of Technology (B.Tech) in Computer Science and Engineering (AI & ML), Expected 2026**
- CGPA: 8.43
- Coursework: DBMS, Machine Learning, Deep Learning, Operating Systems, Data Structure & Algorithms, Statistics, Computer Networks

TECHNICAL SKILLS

- Programming Languages:** Java, Python
- Machine Learning:** Standard ML Algorithms
- Deep Learning:** CNN, RNN, LSTM, Bidirectional RNN, Transformers- BERT
- Computer Vision:** Transfer learning, Image Preprocessing, Image Detection & Recognition
- Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn
- Libraries & Frameworks:** Scikit-learn, NLTK, TensorFlow & Keras, OpenCV
- Database:** MySQL
- Web Development:** HTML5, CSS
- Developer Tools:** IntelliJ, VS Code, Xcode, Eclipse, PyCharm, Jupyter Notebook

PROJECTS

- DSA GenAI Tutor (Retrieval Augmented Generation) (2025)**
-Engineered a domain-specific GenAI chatbot that answers Data Structures & Algorithms questions using a RAG pipeline.
-Implemented a custom pipeline to convert 100+ open-source DSA code files into a semantic Markdown knowledge base.
-Used Sentence-Transformer embeddings + ChromaDB for semantic search and Phi-3.5 GGUF via llama.cpp for fully offline inference
-Developed an interactive Streamlit chat UI
[GitHub Documentation](#) [Live Demo](#)
- Text Classification using RNN (2025)**
-Classified news articles into predefined categories using Deep Learning.
-Implemented RNN to capture local text features and combined it with Bidirectional LSTM to model sequential dependencies.
-Attained 89.5% overall accuracy, Macro F1-score: 89%, ROC-AUC: 0.9794, and Log Loss: 0.3102.
-Per-class performance: World (86%), Sports (98%), Business (84%), Sci/Tech (90%)
[GitHub Documentation](#) [Live Demo](#)
- Taxi Fare Prediction using Machine Learning (2024)**
-Developed a predictive model using Random Forest Regressor, Multi-linear Regression, and Decision Trees.
-Implemented a user-defined function to dynamically predict taxi fares based on pickup and drop-off details ensuring real world applicability.
-Random Forest model achieved R2 = 0.80, with lowest errors: MAE = 1.97, MSE = 18.99, RMSE = 4.36, demonstrating high predictive accuracy and minimal error.
[GitHub Documentation](#) [Live Demo](#)
- Sports Dataset Multiclass Image Classification(2024)**
-Engineered a model on a dataset containing images across 100 sports categories
-Preprocessed images and trained a CNN model to classify test images into their respective categories.
-Applied Transfer Learning (MobileNetV2) and also built a custom CNN model from scratch.
-Achieved 94% training accuracy, 91% validation accuracy, and 89.9% testing accuracy.
[GitHub Documentation](#) [Live Demo](#)

CERTIFICATIONS

- AWS Certified Cloud Practitioner** – Amazon (Sept 2024)
[Credential](#)
- Microsoft Certified: Azure AI Fundamentals** – Microsoft (Dec 2023)
[Credential](#)