

BHASKAR SINGH

Location: Dehradun, India, 248002 | Phone: 7080243002 | Email: bhaskar6858@gmail.com

LinkedIn: <https://www.linkedin.com/in/bhaskar-singh-441284215/>

GitHub: <https://github.com/bhaskar6858>

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](#)
- **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 $R^2 = 0.80$, 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](#)