BHASKAR SINGH

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EDUCATION

- Graphic Era Deemed to be University, Dehradun, Uttarakhand
- **Bachelor of Technology (B.Tech) in Computer Science and Engineering (AI & ML), Expected 2026**
- SGPA: 8.24
- Coursework**:** DBMS, Machine Learning, Deep Learning, Operating Systems, Data Structure & Algorithms, 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

- **Text Classification using CNN and RNN (2025)**
  -Classified news articles into predefined categories using Deep Learning.
  -Implemented CNN 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