# Neeraj Kumar

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# Skills

Languages: C, C++, Java, Python

Technologies/Frameworks: TensorFlow, Scikit-Learn, NumPy, Pandas, Matplotlib, OpenCV, Git, GitHub.

Soft Skills: Quick Learner, Critical Thinking, Problem Solver, Adaptability, Team Collaboration.

# **Training**

# **GeeksforGeeks - Complete Interview Preparation**

May 2024 – Aug 2024

- Demonstrated strong grasp of arrays, linked lists, trees, and graphs through structured complexity analysis and implementation.
- Solved algorithmic problems using dynamic programming, greedy methods, recursion, and efficient backtracking techniques
- Developed clean, high-performance code by effectively applying techniques such as debugging, profiling, multi-threading, caching, indexing, and optimization to enhance software efficiency, scalability, reliability, and overall system performance.
- Continuous Learning & Adaptability: Continuously upskilling through problem-solving and staying updated with new technologies.

# **Projects**

Multi Class Text Classification System | Python, scikit-learn, Word2Vec, Ensemble Learning

Aug 2024 - Dec 2024

- Improved text classification system with BBC News dataset, achieving 12% gain in prediction accuracy and efficiency.
- Designed and implemented Naïve Bayes, SVM, Random Forest, HMM (Word2Vec), and an Ensemble Voting Classifier model.
- Evaluated models using Precision, Recall, F1-score, and Accuracy, leading to a 20% increase in overall model effectiveness.
- Attained 97% classification accuracy using TF-IDF feature extraction, improving model performance by 18% over baseline.

Vicon Physical Action Dataset | Python, NumPy, Pandas, scikit-learn, Matplotlib, Seaborn

Jan 2024 – May 2024

- Engineered and developed an action classification system using the Vicon dataset, improving performance accuracy by 15%.
- Applied data preprocessing techniques like merging, encoding, and scaling to enhance the model's performance effectively.
- Trained and optimized Logistic Regression, Random Forest, SVM, and Decision Tree models to improve performance.
- Achieved an impressive 99.99% accuracy by effectively utilizing the Random Forest model for classification tasks.

#### **Music Recommendation System**

Jan 2024 - May 2024

- Crafted an intelligent recommendation system to deliver personalized song suggestions based on user preferences and behaviour.
- Leveraged cosine similarity to significantly improve recommendation accuracy by calculating the similarity between user
  preferences and songs, ensuring more personalized, relevant, and accurate song recommendations aligned with listener interests.
- Accomplished an accuracy of 85.00% by implementing effective models and optimizing them for enhanced performance.

# Certificates

#### **NPTEL**

■ Technical English for Engineers (Elite + Silver)

Aug 2024 – Oct 2024

Introduction to Internet of Things (Elite + Silver)

Jul 2024 - Oct 2024

■ Introduction to Machine Learning (Top 5%)

Jul 2024 - Oct 2024

Probability and Statistics

Jan 2024 – Apr 2024

# **Achievements**

• Ranked in the top 5% in the NPTEL Machine Learning Course.

Jul 2024 - Oct 2024

eYantra Robotics Hackathon: Qualified Stage 1, securing national rank 82 out of 1000 teams, demonstrating expertise in robotics, engineering design, and problem-solving
 Jul 2024 – Dec 2024

#### **Education**

# **Lovely Professional University**

2022 - 2026

Computer Science and Engineering, CGPA: 7.95

Phagwara, Punjab

**R. S. S. Science College** 12th with Science, Percentage: 75.60%

2019 – 2020 Sitamarhi, Bihar