RAJNISH KUMAR

+918955694170 | Gmail | GitHub | LinkedIn | GFG | Leet code | HackerRank

PROJECTS

Shakespeare Text Generator | *Python, Py-torch*   GitHub
- Built a character-level **LSTM** model in PyTorch to generate **Shakespeare-style** text from over 100,000+ characters of dialogue.
- Preprocessed and encoded text data with custom **PyTorch Dataset and DataLoader** pipelines for sequence modeling.
- Trained a multi-layer LSTM with embeddings and dropout using **CrossEntropyLoss** and **Adam** optimizer over **20 epochs**.
- Enabled real-time character prediction from user input, showcasing learned linguistic patterns through text generation.

Text Summarization | *Python, Machine Learning, RNN, NLTK, Transformer, PCA*   GitHub
- Created a text summarization system using **NLP**, processing documents with up to **10,000+ words**, and generating summaries with **85%+ ROUGE score**.
- Blended **machine learning** with **RNNs** and **Transformers** to boost semantic accuracy by **20%** compared to traditional extractive models.
- Applied **PCA** to reduce feature dimensions by **50%**, improving model training speed.
- Achieved **high-quality** summaries while preserving **95% of key content** in tests across multiple datasets.

Titanic Survival Prediction |*Python, Py-torch, Sklearn*   GitHub

- Developed a neural network in **PyTorch** to predict passenger survival with ~**77% accuracy**.
- **Preprocessed 890+ records**: handled missing data, label encoded features, and scaled inputs.
- Trained model using **BCELoss** and **Adam** optimizer; achieved **72.8% precision** and **70.8% F1-score.**
- Used **DataLoader** for efficient mini-batch training and evaluation on test set.

SKILLS

- **Programming Languages**:   C/C++, Java, JavaScript, Python, Python Libraries
- **Data Structures & Algorithms**: Proficient in problem-solving and algorithm design
- **Backend Technologies**:   MySQL, Android Development (Kotlin, XML) , Firebase
- **Machine Learning & AI**:   OpenCV, Python Libraries, ML Models, Deep Learning Models, NLP
- **Tools & Platforms**:   Git, GitHub
- **Non-Technical Skills:**   Adaptive Learner, Leadership Capability, Time Management

CERTIFICATIONS

- Complete Machine Learning and Data Science (GeeksForGeeks)
- Prompt Engineering for ChatGPT (Coursera Learning)
- Introduction to Large Language Models (Coursera Learning)
- Frontend Web Development(LinkedIn)

ACHIEVEMENTS

- Solved **500+** questions on the LeetCode and GeeksForGeeks platform.
- Attained the **5**-Star Badge on HackerRank for outstanding Java and Python programming.

EDUCATION

Lovely Professional University   Phagwara, Punjab
  B.Tech (Computer Science) **CGPA : 7.07**   Oct 2022 – Present
Red Rose School   Deoghar, Jharkhand
  Intermediate (Maths, Physics, Chemistry) **Percentage : 84%**   Mar 2019 – Jun 2021
Red Rose School   Deoghar, Jharkhand
  Secondary Education (Class 10th) **Percentage : 92%**   Mar 2018 – Jun 2019