Sahil Kumar

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SKILLS

- **Languages**:   C++, JavaScript, Java, Python
- **Frameworks**:   HTML CSS, Flask and Open cv
- **Tools/Platforms**: MySQL, Jupyter Notebook, Google collab
- **Soft Skills**:   Problem-Solving Skills, Team Player, Project Management, Adaptability

TRAINING

GeeksforGeeks - DSA Self-Paced Course   Aug 2024
- Mastered Data Structures & Algorithms (DSA), problem-solving techniques, and algorithmic thinking through structured learning.
- Developed a Sudoku Solver project, improving coding proficiency, logical reasoning, and algorithm optimization, along with gaining hands-on experience in backtracking and recursion.

PROJECTS

AI Chatbot using GPT-2 & Transformer Pipeline   Jan 2025
- Built an AI-powered chatbot leveraging GPT-2 with Hugging Face's Transformers pipeline for efficient text generation.
- Designed a secure framework for handling personal information, ensuring user data privacy.
- Integrated NLP techniques such as Named Entity Recognition (NER) and Sentiment Analysis for enhanced user experience.
- Fine-tuned GPT-2 on a domain-specific dataset to improve response accuracy and coherence.

Real-Time Face Detection System   Feb 2025
- Developed a real-time face detection system using OpenCV and deep learning models for accurate facial recognition.
- Implemented Haar cascades and deep learning-based models (like MTCNN, SSD, or Retina Face) for detecting faces in images and videos.
- Enhanced detection accuracy by leveraging pre-trained models (such as YOLO or Mobile Net SSD) for real-time applications.
- Optimized performance using OpenCV with CUDA acceleration, ensuring efficient processing on GPUs.
- Deployed the system as a web app using Flask/FastAPI or integrated into mobile applications with TensorFlow Lite.
- Technologies: Python, OpenCV, TensorFlow/Keras, Dlib, Flask/FastAPI, Docker, AWS Lambda.

CERTIFICATES

- Complete Interview Preparation - Self-Paced (C++) by GFG   June 2024
- Large Language Model- Coursera   May 2024
- Cloud Computing – NPTEL   Oct 2024

ACHIEVEMENTS

- **Contest Rating - 81**:   June 2024
  Among 10k+ participants in GeeksforGeeks Biweekly Contests.

- **Freelance Web Developer - Fiverr**:   Feb 2024
  Successfully delivered 10+ projects as a freelancer.

- **Received letter of appreciation from Bharti Foundation**:   Aug 2024
  To support the effective implementation of the Mid-Day Meal (MDM) program.

EDUCATION

- **Lovely Professional University**   Punjab, India
  Bachelor of Technology - Computer Science and Engineering; CGPA: 6.22   *Since August 2022*

- **RKSD Public School**   Kaithal, Haryana
  Intermediate   *April 2019 - March 2021*

- **Shri Gita Niketan Public School**   Kaithal, Haryana
  Matriculation   *April 2017 - March 2019*