Mangesh Kumar

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OBJECTIVE

I am an MCA student with programming skills in Java and Python. I am looking for an entry-level software development position to gain technical knowledge and experience. I am excited to contribute to innovative projects and grow as a valuable team member.

SKILLS

- **Programming Languages** Java, Python
- **Web Development** HTML, CSS, JavaScript, FastAPI, Spring Boot, React (Basics)
- **Database Technologies** SQL, PostgreSQL, MySQL
- **Tools & Platforms** Git, GitHub, Postman, VS Code
- **Cloud/Hosting** AWS (S3, EC2)
- **Data Analysis & Visualization** Excel, Pandas, Matplotlib
- **Others** REST APIs, JSON, Agile Methodology

EXPERIENCE

- **Technobook** *September 2024 – November 2024*
  AI and Machine Learning Intern Remote
  - **Text Summarization** Developed a Python-based text summarization tool using TF-IDF.
  - **Machine Learning** Enhanced knowledge of NLP techniques and model implementation.

- **Unified Mentor** *July 2023 – August 2023*
  Web Development Intern Remote
  - **Frontend Development** Created responsive web pages using HTML, CSS, and JavaScript.
  - **Project Implementation** Built and deployed a dynamic website showcasing internship learnings.

PROJECTS

- **RAG-based Q&A Application** *2025*
  Python, PostgreSQL, AI-based Retrieval, Fast API GitHub Repository
  - * **Intelligent Search System** Developed a system that allows users to retrieve relevant answers from documents using Retrieval-Augmented Generation (RAG) techniques.
  - * **Embedding Generation** Implemented document embedding techniques to enhance search accuracy.
  - * **AI-powered Q&A** Integrated AI models to answer user queries based on ingested documents.

- **Deepfake Detection Model** *2024*
  Python, TensorFlow, Keras GitHub Repository
  - * **Model Development** Developed a model for detecting GAN-generated fake images using Convolutional Neural Networks.
  - * **Data collection** Used datasets like FaceForensics++ to train and evaluate the model, achieving 90% accuracy.

- **Weather Forecasting Website** *2023*
  HTML, CSS, JavaScript, AWS AWS
  - * **Real-time data** Designed a dynamic website fetching real-time weather data using API calls.
  - * **Cloud deployment** Hosted on AWS for scalability and reliability.

EDUCATION

- **University of Petroleum and Energy Studies** *2023 - 2025*
  Master of Computer Applications Dehradun, India

SOFT SKILLS/HOBBIES

- * **Creativity** Skilled in applying creative thinking to design and development tasks.
- * **Communication** Effective communication in technical environments.
- * **Teamwork** My favorite sport is football, which helps me develop my teamwork skills.