Ansh Manwani

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Professional Summary

Computer Science undergraduate with hands-on experience in Machine Learning, Deep Learning, NLP, and Computer Vision. Proficient in building AI-powered applications using Python, TensorFlow, PyTorch, and modern NLP frameworks. Strong foundation in data structures, algorithms, and full-stack development. Seeking opportunities to leverage AI/ML expertise in innovative projects at leading technology companies.

Technical Skills

Programming Languages: Python, Java, JavaScript, SQL, HTML/CSS
AI/ML Frameworks: TensorFlow, PyTorch, Scikit-Learn, Keras, OpenCV, NLTK, SpaCy, Hugging Face Transformers
Data Science: Pandas, NumPy, Matplotlib, Seaborn, Data Pipelines, Feature Engineering, Model Evaluation
Deep Learning: Neural Networks, CNNs, RNNs, LSTMs, Transfer Learning, Computer Vision, NLP
Cloud & Tools: AWS, Google Cloud (Document AI), Git, Docker, Jupyter, REST APIs
Databases: MySQL, PostgreSQL, MongoDB
Specializations: Generative AI, Prompt Engineering, Computer Vision, Natural Language Processing, MLOps

Projects

AI Job Application Assistant | *Python, NLP, Generative AI, LLMs, API Integration* **2024**

- Developed an intelligent automation system that streamlines job application processes using advanced NLP and generative AI models
- Implemented resume parsing, job description analysis, and automated cover letter generation using transformer-based language models
- Integrated with multiple job platforms via REST APIs to enable seamless application submission and tracking
- Achieved 85% reduction in application time while maintaining personalization quality through prompt engineering techniques

AI Document Q&A Assistant | *Python, RAG, LangChain, Vector Databases, NLP* **2024**

- Built a retrieval-augmented generation (RAG) system enabling natural language queries over large document collections
- Implemented semantic search using embeddings and vector databases (FAISS/Pinecone) for efficient document retrieval
- Integrated large language models with custom prompt templates to generate accurate, context-aware responses
- Designed preprocessing pipeline handling multiple document formats (PDF, DOCX, TXT) with 95% accuracy in answer extraction

Smart Helmet Detection System | *Python, Computer Vision, YOLO, OpenCV, Deep Learning* **2024**

- Engineered a real-time object detection system using YOLOv8 to identify helmet compliance in construction and industrial environments
- Trained custom CNN models on 10,000+ annotated images achieving 92% accuracy and 30 FPS inference speed
- Implemented alert notification system and dashboard for monitoring safety compliance across multiple camera feeds
- Optimized model performance through data augmentation, transfer learning, and hyperparameter tuning techniques

Food Ordering Chatbot - Restaurant Snackistan | *NLP, Dialogflow, Python, API Integration* **2024**

- Created conversational AI chatbot handling end-to-end food ordering process with natural language understanding
- Implemented intent recognition, entity extraction, and context management for multi-turn conversations
- Integrated payment gateway APIs and order management system for seamless transaction processing
- Deployed on multiple platforms (web, mobile) serving 500+ daily interactions with 90% user satisfaction rate

Education

Shaheed Zulfikar Ali Bhutto Institute of Science and Technology (SZABIST) **Aug. 2023 – May 2027**
Bachelor of Science in Computer Science *Hyderabad, Sindh, Pakistan*

Certifications

Automate Data Capture at Scale with Document AI - Google Cloud
Career Essentials in Generative AI - Microsoft & LinkedIn
Prompt Engineering for Everyone - IBM
Prepare Data for ML APIs on Google Cloud - Google Cloud
AWS Educate Introduction to Cloud 101 - Amazon Web Services