

SHUBHAM ANAND

AI / ML Engineer

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Highly dedicated professional with over 3 years of industry expertise in the field of Artificial Intelligence, Machine Learning, and Data Science. Skilled in translating complex research papers into actionable strategies and implementing innovative solutions for business transformation

Technical Skills

Artificial Intelligence (AI): Keras, PyTorch, TensorFlow.

Language Models and Learning Management: Lang Chain, LLMs, Llama.cpp.

Machine Learning: Scikit-Learn, Linear/Logistic Regression, Clustering.

Data Science and Analysis: NumPy, SciPy, Pandas, NLTK, Matplotlib.

Development Environments and Databases: Python, C/C++, JAVA, Anaconda, Linux, JupyterLab.

Cloud Computing and

Virtualization: AWS, GCP, Docker.

Soft Skills

- Communication
- Leadership
- Team Collaboration
- Decision-Making
- Time Management

Certifications

Generative AI | GCP | July '23

Accelerated Deep Learning with GPU | IBM | Aug '20

Data Science with Python | IBM | May '20

Education

- 2020: B.E. in Computer Science** - Sal Engineering and Technical Institute, Gujarat Technological University with CGPA: 8.49

Personal Details

Work Experiences

Artificial Intelligence Engineer - Systems Engineer

Tata Consultancy Services, Ahmedabad, India

Mar '21 - Present

Key Result Areas:

- Developing and deploying advanced machine learning algorithms, ensuring alignment with system requirements and contributing to improved performance.
- Leading the seamless integration of AI solutions into existing systems, optimizing compatibility, reliability, and interoperability across diverse platforms.
- Refining and optimizing AI algorithms and system components for maximum efficiency, responsiveness, and resource utilization.
- Fostering collaboration among software developers, hardware engineers, and stakeholders to align AI initiatives with broader system goals.
- Executing comprehensive testing protocols to validate the performance and reliability of AI-infused systems
- Identifying and resolving potential issues through systematic testing methodologies.
- Led a team of 10+ members at Tata Consultancy, delivering a project well before the deadline and ensuring a smooth go-live.
- Ensured the timely completion of a project at Tata Consultancy, handling all edge test cases to prevent potential challenges / hiccups during the delivery phase.

Assignments Executed:

Email Parsing and Summarization with LLM Integration

Highlights / Achievements:

- Pioneered the integration of email parsing and document summarization functionalities using Language Learning Models (LLMs), enhancing efficiency in handling incoming documents.
- Led the development and implementation of an automated system to parse incoming emails and summarize attached documents, optimizing workflow processes.

Invoice Extraction and Validation with Transformers Architecture

Highlights / Achievements:

- Pioneered the implementation of a sophisticated invoice extraction system utilizing state-of-the-art Transformers architecture, significantly reducing manual effort and increasing accuracy.

LLM Integration with Knowledge Base

Highlights / Achievements:

- Spearheaded the development of a modern chatbot software by integrating a Language Learning Model (LLM) with a custom-constructed knowledge base.
- Led the design and implementation of the knowledge base, ensuring efficient organization and retrieval of information for user inquiries.

Fingerprint Area Masking

Highlights / Achievements:

- Applied state-of-the-art CNN techniques, achieving >97% accuracy in masking sensitive biometric information in land registration documents.

Aadhar Number Masking

Highlights / Achievements:

- Applied Masking techniques for sensitive Personal Identifiable Information from various identity proof documents using Computer Vision and Deep Learning.

- Date of Birth: 26th October 1998
- Languages Known: English & Hindi
- Address: Ahmedabad, India

- Led the design and implementation, collaborating with cross-functional teams for cross-platform functionality.

Fingerprint Analysis and Criminal Tracing System

Highlights / Achievements:

- Developed Deep Learning algorithms with hybrid CNN architectures, achieving >95% accuracy in Pattern class classification and Orientation detection.
- Created Image Processing algorithm for Fingerprint Image Pre-processing, Enhancement, and Feature Extraction.
- Mentored interns on projects including Minutiae detection and Fingerprint Analysis.
- Deployed Pattern class classification models for TCS DigiGOV FACTS application, enhancing performance.