


Sanskruti Deshmukh

+1(631)406-0240 sanskrutidhana.deshmukh@stonybrook.edu   Google Scholar

Education

Stony Brook University, New York

New York, NY

Master of Science in Computer Science(Data Science)

Expected May 2027

Coursework: Machine Learning, Data Analysis, NLP, Computer Vision, Big Data Analysis

Vishwakarma Institute of Technology — GPA 8.79/10

Pune, IN

Bachelor of Technology in Artificial Intelligence and Data Science

Graduated May 2025

Coursework: Computer Architecture, Operating System, Data Structures & Algorithms, Database Management, Artificial Intelligence

Professional Experience

Airtel - Xtelify(Bharti Airtel Limited) Pune, IN

January-June 2025

AI & CloudOps Intern

- Contributed to a project involving Docker containerization, LLM-driven backend automation(Agentic AI) for enhancing cloud optimization strategies.
- Built expertise in Google AI/ML tools, integrating Grafana and Service Now to enhance system observability.
- Hands-on as an Oracle DBA, handling over 100+ servers, patching activities for multi-client systems.

Power Zoom Digital Solutions Pune, IN

June-November 2024

Microsoft Power Platform Intern

- Developed AI models and prompt pipelines in Azure ML Studio, driving automated deployment and scalable solutions.
- Achieved a 20% reduction in development costs by building low-code solutions using Microsoft Power Apps.
- Enhanced operational efficiency through automated workflows and data management solutions using Power Automate, and SharePoint.

Projects

RAKSHAK: Full-Stack AI Emergency Response Platform —Python, Voice API, Mongo DB

- Designed voice-interactive triage system using LLM, Deepgram, and Flask, enabling automated medical query processing and ambulance trigger workflows.
- Engineered MongoDB-backed hospital dashboard with Python Flask for live patient monitoring and pre-arrival data sync.
- Integrated Cartesia APIs with multilingual voice pipelines and automated dispatch logic for scalable emergency response.

Python Engine for Semantic Video Summarization and Translation  —Hugging Face, NLP **IEEE Xplore**

- Condensed lengthy videos into concise summaries with translation capabilities in over 100+ languages, reducing video watch time by an average of 85% while maintaining key information.

JuryNLP: Modular AI Framework for Legal Document Intelligence —Langchain, OCR, Flask

- Built LangChain and OpenAI LLM pipelines in Flask, automating legal document generation, which accelerated legal drafting workflows.
- Integrated OCR for document parsing, digitizing legal records, which improved processing speed and data usability.

CareerBoost: A Hybrid RAG-NLP Job Recommendation Framework —RAG, Gen AI **IEEE Xplore**

- Developed an AI-powered job recommendation system using a Retrieval-Augmented Generation (RAG) framework with Sentence-BERT for semantic search and GPT-2 for domain-specific job matching.
- Achieved a 25.8% increase in recommendation precision, 45.7% boost in user engagement, and a 41.2% rise in job application rates.

Achievements

- Runners Up in Hack-o-Hire organized by **Barclays India** among 4550 students for project titled Forecasting and Predicting Cybersecurity Threats

Skills

Programming: Python, C, SQL, JavaScript, R, Power Fx

Data Science and ML: Pandas, Numpy, Scikit-learn, TensorFlow, PyTorch, Langchain, Transformers, RAG

Database, Cloud and Tools: MySQL, MongoDB, Google Cloud(GCP), Microsoft Power Platform

Data Visualization: Excel, Power BI, Matplotlib, FastAPI, ServiceNow

Certifications: Meta Database Engineer Specialization(Coursera), Data Visualization with Python(IBM), Data Science Job Simulation(Forage)