Nidhi Shivapuji

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Profile

AI/ML enthusiast with a strong foundation in software engineering and hands-on experience in NLP, machine learning, and deep learning. Currently working as an **SAP ABAP Analyst at Deloitte**, I bring a blend of enterprise-level software experience and innovative project work, including building an intelligent document-based QnA system using LLMs. Skilled in Python, Java, C++, and modern ML/DL frameworks, I am passionate about applying AI to solve real-world problems.

Education

B.Tech **Cummins College of Engineering, Pune**, Electronics and Telecommunications   Dec 2020 – May 2024

Relevant Coursework: Artificial Intelligence, Machine Learning, Deep Learning, Data Structures and Algorithms, Object Oriented Programming.

Technologies

Languages: Python, Java, SQL, ABAP

ML/DL Technologies: Scikit-learn, TensorFlow, Keras, PyTorch, OpenCV

NLP: Hugging Face, spaCy, NLTK, LangChain

Tools and APIs: OpenAI, Flask, FastAPI, Git, SAP

Others: SQL, REST APIs, Git

Experience

Deloitte, Analyst   Thane, Maharashtra
July 2024 – Present

- Completed a 6-month hands-on training in SAP ABAP, covering core backend development, debugging, and system enhancements.
- Co-developed an internal "Demand Management" tool using SAP BTP (CAPM, OData services, JavaScript, and Fiori), enabling real-time tracking of resource requirements.
- Worked on S/4HANA 2023 migration projects for Gulf Oil and NKT Cables:
  Handled ATC code remediation, SPAU/SPDD adjustments, dump analysis, and transport workflows while collaborating with functional teams to ensure smooth post-migration performance.

Siemens Digital Industries Software, Software Engineer Intern   Pune, Maharashtra
July 2023 – Aug 2023

- Integrated a cloud-based software licensing solution into a Siemens flagship product using C++ and RESTful APIs, enhancing licensing functionality and performance.
- Worked in an Agile team environment, actively participating in sprints, code reviews, and collaborative development using Git.
- Gained exposure to industry-standard coding practices, enterprise software workflows, and the organizational structure of a global tech company.

Projects

Smart Document QnA System (LLM + NLP + ML/DL)

- Built an end-to-end system that ingests PDFs, scanned documents, and Word files to enable natural language QnA.

- Utilized transformer-based models (LLMs), deep learning pipelines, and NLP techniques for intelligent document parsing.
- Exposed functionalities via a robust API for integration with front-end clients.
- Technologies: Python, Hugging Face Transformers, LangChain, Flask/FastAPI, PyMuPDF, Tesseract, OpenAI API.

Finalist – Walmart Global Tech Hackathon – Fraud Detection Model   github ↗

- Designed a machine learning framework to detect 'Post-Usage Return Fraud' — where customers exploit return policies after temporary product use.
- Implemented a Bagging Random Forest model to classify return requests as fraudulent or legitimate, leveraging ensemble learning to enhance accuracy and robustness.
- Worked with real-world retail datasets containing customer, order, and product information.
- Engineered features to identify suspicious behavior patterns such as spikes in return frequency or high-volume returns to specific stores.
- Achieved significant performance improvements in fraud prediction while mitigating model overfitting.

Microsoft Engage – Face Recognition Attendance System   github ↗

- Chosen for Microsoft's competitive month-long mentorship program focused on problem-solving and innovation.
- Developed a real-time Face Recognition Attendance System using Python and OpenCV.
- Implemented facial detection and recognition algorithms to log attendance from video streams automatically.

Certifications

Natural Language Processing with Python - Udemy   March 2025

Skills: Text preprocessing, NER, POS tagging (SpaCy), text classification (scikit-learn), topic modeling (LDA/NMF), Word2Vec, sentiment analysis (NLTK), basic chatbot using deep learning.

Deep Learning: Advanced Natural Language Processing and RNNs   June 2025

Skills: Sequence-to-sequence (seq2seq) models, attention mechanisms, neural machine translation (NMT), memory networks for QnA, text generation, foundations of LLMs like GPT, DALL·E, and Stable Diffusion.

Achievements

Second Runner-Up – PepsiCo PEP Ideathon   December 2023

Secured 3rd place among 100+ teams in a national-level innovation competition.

Presented an AI-powered drone system for early detection of plant diseases, combining computer vision and deep learning concepts for agricultural applications.