

Sulaksha B K

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EXPERIENCES

Sona BLW Precision Forgings Ltd, Chennai | *Software Developer (GET)* Feb 2025 - Present

- PyQt6, Streamlit, SQLite, MySQL, Express.js, React.js, Node.js, PHP, Laravel, AJAX, jQuery
- Migrated 8+ legacy PHP portals to MERN stack, improving app performance by 40% and reducing maintenance overhead.
- Developed a USB malware scanner using Python, PyQt6, and ESET NOD32, enabling real-time threat detection and preventing unauthorized device access.
- Built a PyQt6 and Streamlit -based system setup app to automate software checks during device onboarding, reducing manual validation by 70%.

Microsoft and SAP initiative- TechSaksham AI | *AI/ML Specialist Intern (Online)* Feb 2025 - Apr 2025

- Python, Streamlit, BERT, Hugging Face Transformers, Scikit-learn
- Built and deployed an AI-powered ATS resume screener using BERT and Streamlit in Python as part of the Microsoft-SAP TechSaksham AI initiative, enhancing candidate shortlisting accuracy by 92%.

SKILLS SUMMARY

- **Technical Languages:** Python, C, Java, SQL, PHP, JavaScript, HTML/CSS
- **Frameworks:** Flask, Streamlit, PyQt6, PyTorch, Tensorflow, Keras, Hugging Face, LangChain, FAISS
- **Libraries:** Numpy, Pandas, Matplotlib, spaCy, Scikit Learn, nltk, pytesseract, seaborn
- **Tools:** Git/GitHub, Dev C++ , NetBeans, Tesseract OCR

PROJECTS

DocCogniX | *Python, RAG, LLMs, Streamlit, Google Gemini AI, HuggingFace, Vector DB, Langchain, pytesseract*

- Developed DocCogniX , an AI-powered document comprehension chatbot (Conversational AI) engine using Streamlit, OCR (Tesseract), and Google Gemini LLM to extract and summarize content from scanned PDFs.
- Built with LangChain, FAISS, and Streamlit, allowing easy integration of other models and vector stores.
- Achieved 85% accuracy, 92.86% precision, 86.67% recall, and 89.67% F1-score.

Audiobook Generator | *Python, Flask, gTTS, PyPDF2, GPT 2, HTML/CSS*

- Built using Python, Flask, and gTTS to convert text and PDF documents into human-like speech.
- Integrated PyPDF2 for PDF parsing and GPT-2 for summarizing long documents before narration.

EDUCATION

Meenakshi Sundararajan Engineering College, Chennai. Oct 2021 – May 2025

- B.E. (Hons) in Computer Science and Engineering
- CGPA: 8.89/10.0

R N Podar International School(CBSE), Mumbai, India Jun 2017– Mar 2021

- 12th Percentage: 81.21% • 10th Percentage: 83.67%

PROFESSIONAL CERTIFICATIONS

- ORACLE - Oracle Cloud Infrastructure 2024 Generative AI Certified Professional
- Tata Group- Gen AI Powered Data Analytics Job Simulation on Forage
- IBM SkillsBuild - Machine Learning to Generative AI, Artificial Intelligence Fundamentals

PAPER PUBLICATIONS

1. Driver Drowsiness Detection using OpenCV and DLib Libraries | **IEEE** | [Link](#)
2. Sarcasm Detection in Dravidian Languages using RoBERTa and CNN| **FIRE 2024** | [Link](#)
3. Depression Detection from Social Media Texts using Ensembling Techniques | **LT-EDI 2023** | [Link](#)

ACHIEVEMENTS

- 1st Prize in Intra-college Website Creation and Replication Competition
- 1st Prize in Intra-college Paper Presentation Competition
- 3rd Prize in Project Demo Day for Home Food Haven Application.
- Department Rank Holder in semesters 4 ,5 and 6.