

HARIHARA SUDHAN N

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PROFILE SUMMARY

Software Engineer with expertise in NLP and AI-driven automation. Proficient in Python, SQL, and Power BI for data analytics and visualization. Skilled in developing AI-powered solutions using LangChain, OpenAI, Hugging Face, and Generative AI models. Experience includes SEO analytics, prompt engineering, document digitization, and business intelligence. Passionate about leveraging AI for automation, process optimization, and data-driven decision-making.

EDUCATION

Bachelor of Engineering (B.E.) - Mechanical Engineering

Government College of Engineering, Tirunelveli (2019 - 2023)

CGPA: 7.85

WORK EXPERIENCE

Junior Software Engineer -AI

Entrans Technologies, Chennai, Tamil Nadu (Oct 2024 - Present)

- Developed AI solutions using Generative AI, LangChain, and NLP for automation and business intelligence
- Designed and optimized AI-powered workflows to improve process efficiency and decision-making

Intern Trainee - Data Analytics

RIOTA Private Limited, Chennai, Tamil Nadu (Sep 2023 - May 2024)

- Conducted data analysis and visualization using Python, Power BI, and SQL to generate business insights
- Automated data workflows, improving reporting efficiency and trend analysis accuracy

PROJECTS

AI SEO Analysis Tool – SEO Blog Analyzer

- Developed an AI-powered Blog SEO Analyzer using Python, Streamlit, BeautifulSoup, LangChain, and Google Generative AI
- Scraped blog content to extract text, headers, and key elements while filtering out irrelevant sections
- Extracted top keywords and evaluated blog SEO performance, including keyword usage and meta descriptions
- Assessed content quality based on grammar, engagement, and scannability
- Analyzed internal and external links for SEO optimization
- Built an interactive Streamlit dashboard to provide real-time insights and actionable suggestions

AI-Driven Document Digitization Solution

- Built an AI-driven system to extract, correct, and analyze text from scanned documents using computer vision and NLP
- Used OpenCV for image preprocessing, Google Cloud Vision API for text extraction, and Gemini AI for context-aware correction
- Implemented Levenshtein-based fuzzy search and evaluated OCR quality using CER/WER metrics
- Developed a Streamlit web app for document processing, enhancing digitization accuracy and efficiency

Pandas Data Wizard: Streamlining Data Processing

- Ensured data uniformity and high-quality standards, focusing on data integrity
- Designed data transformation functionalities with attention to detail, similar to software testing
- Documented processes to support testing, validation, and handling data processing
- Enhanced the tool's capability for accurate insights through temporal analysis

Transaction Efficiency Analysis and Optimization

- Assessed machine efficiency using transactional data with precision in data analysis
- Analyzed successful and pending transactions based on their status using Excel Functions
- Analyzed transaction amounts and counts per machine to evaluate performance
- Created a dashboard for insights and optimization of machine operations and improved efficiency

TECHNICAL SKILLS

- **Programming:** Python (Analysis, Automation, Web Scraping, AI, NLP)
- **Data Analytics & Visualization:** Power BI, SQL, Excel
- **AI & ML Tools:** Generative AI, LangChain, Hugging Face, NLP, OCR
- **Libraries & Frameworks:** Pandas, NumPy, Matplotlib, BeautifulSoup, SpaCy, OpenCV
- **Database:** MongoDB, MySQL
- **Developer Tools:** VS Code, GitHub, Streamlit

CERTIFICATIONS

- **Oracle Cloud Infrastructure 2024 Generative AI Professional Certificate** – Oracle

PROFESSIONAL SKILLS

- Analytical Thinking & Problem-Solving, Critical thinking
- Process Optimization & Business Intelligence
- AI-driven Automation & Data-driven Decision Making
- Effective Communication & Team Collaboration, Negotiation