

SOBANA. RS

Diligent Aspirant with great interpersonal skills, experience in service jobs and with variety of powerful skills. Determined to be an asset to any team by providing positive experiences and impressions. Possess certificates from acting classes, conflict resolution seminars.

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CAREER OBJECTIVE

To work in a professional, dynamic and vibrant environment and to keep value-adding to the organizational firm which I represent and serve while concurrently upgrading my skill, knowledge, and competence. Convert my knowledge into the experience and develop my potential



EDUCATION

Bachelor of Technology (8.8 till 7th sem)

Sethu Institute of Technology
[Department of Artificial Intelligence & Data Science]
Virudhunagar, Tamilnadu
(2021 - 2025)

Grade 12 (89%)

St. John's Matriculation Higher Secondary School
Madurai, Tamilnadu
(2020 - 2021)

Grade 10 (86.4%)

St. John's Matriculation Higher Secondary School
Madurai Tamilnadu
(2018 - 2019)

TECHNICAL SKILLS & TOOLS

- **Programming & Web Development:** Python, HTML, CSS, JavaScript
- **Machine Learning & AI:** TensorFlow, PyTorch, Scikit-learn, OpenCV, Hugging Face
- **Deep Learning:** CNN, Transformers, Generative AI
- **Data Science & Analytics:** Pandas, NumPy, Matplotlib, Seaborn
- **Database & Storage:** MySQL,
- **Data Visualization:** Power BI, Excel
- **Version Control & Deployment:** Git, GitHub
- **NLP & OCR:** NLTK, Spacy, Pytesseract
- **Designing:** Canva

SOFT SKILLS

- Goal oriented
- Time management
- Planning
- Verbal & Written communication

LANGUAGE

- English
- Tamil
- Telugu

INTERNSHIP

Infosys Springboard Internship 5.0(On Stream)

Interval: December 2025 - February 2025

Field of Knowledge: NLP, Machine Learning, Generative AI

Project: Developed AI-powered tool that generates role-specific interview questions for recruiters and hiring managers.

Agiliz Tech (Bangalore, Karnataka)

Interval: November 2023 - December 2023

Field of Knowledge: Training on Gen AI & Prompt Engineering Methodologies

Project: Developed Chatbot for Medical Website

Knowledge Solutions India (On stream)

Interval: January 2023 - March 2023

Field of Knowledge: Machine Learning with AI using Python.

Project: Heart Disease Prediction using Logistic Regression

PROFESSIONAL DEVELOPMENT

Pragati: Path to Future Program

Infosys, Chennai (July 2024)

Description: Participated in a comprehensive development program focused on future-ready skills and leadership. Engaged in hands-on workshops, interactive sessions, and networking opportunities with industry experts.

ENTERPRISE TECHNOLOGY SOLUTIONS

Automatic Screw Detection System – Indo Metal Tech, Chennai

(November 2024 – February 2024)

- Developed an AI-based screw counting system using OpenCV and image processing.
- Implemented a camera-based detection system integrated with a computer for automated counting.
- Solution accepted and deployed, enhancing efficiency in manufacturing.

Press Clipping Management System – Indian Railways, Madurai

(August 2024 – October 2024)

- Built a web-based platform for digitizing and managing daily railway news clippings.
- Enabled PROs to categorize, annotate, and archive news, improving accessibility.
- Integrated a calendar feature for quick retrieval of past reports, eliminating storage issues.

INNOVATIVE IMPLEMENTATIONS

Natural Language Processing

- **Text-to-Speech & Speech-to-Text:** Created an accessibility tool for visually and hearing-impaired individuals to convert text and speech seamlessly.
- **Named Entity Recognition (SpaCy):** Designed an NER model to extract key entities from text, aiding in information retrieval and text analysis.
- **Language Detection (LangDetect):** Implemented a system for automatic language detection, enhancing multilingual text processing applications.

GenerativeAI

- **Code Debugger (Grog):** Created an AI assistant to analyze and debug code efficiently, reducing developer effort and improving productivity.
- **Sales Mail Generator (Grog):** Automated the generation of personalized sales emails, improving outreach efficiency for businesses.
- **Research Paper Summarizer (Grog):** Created a tool to condense research papers into concise summaries, aiding researchers and students.
- **Text-to-SQL Query Converter (Grog):** Built an AI system to convert natural language into SQL queries, making database querying accessible.
- **YouTube Summarization (Gemini 1.5 Flash):** Developed an AI tool to summarize YouTube videos, saving time for users looking for quick insights.

Machine Learning

- **Supply Chain Disruption Prediction (XGBoost):** Built a model to forecast supply chain risks, helping businesses mitigate disruptions and maintain inventory balance.
- **Stroke Prediction (Random Forest Classifier):** Developed a predictive model for assessing stroke risk, assisting healthcare professionals in early intervention.

Deep Learning

- **Pneumonia Detection (TensorFlow, Keras, CNN):** Built a CNN model for pneumonia diagnosis, improving early detection from chest X-rays.
- **Skin Cancer Classification (TensorFlow, Keras, CNN):** Developed an AI system for skin cancer classification, enabling early and accurate detection.

PUBLICATIONS

- Detectiverse-Advancing Supply Chain Efficiency with AI-Enhanced Screw Counting:Published in Journal of **Image Processing & Pattern Recognition** Progress, focusing on AI-driven object detection for automated screw counting.'
- Designing and Developing a Cancer Chatbot in a Website – Published in Journal of **Multimedia Technology & Recent Advancements**, presenting an AI-based chatbot for assisting cancer patients with medical queries and appointments.
- IoT-Based Smart Farming-Published in **Intensive Research Organisation**, focusing on automated monitoring and control of agricultural activities using IoT technology.

PRESENTATIONS

- Presented a project at **MTS Nanda Student Innovation Award**, showcasing technical innovation and problem-solving skills.
- Delivered a presentation at **Hack4Change by The Nudge Institute & Google**, demonstrating AI-driven solutions and technical expertise.
- Participated in the **National Entrepreneurship Conclave at Lead College**, showcasing innovative business ideas.
- Presented a project at the Project Expo held at **SRM College**.
- Competed in **India's G20 Competition**, demonstrating problem-solving and strategic thinking.
- Took part in the Ideathon at **ACIC-Kalasalingam** Innovation, contributing creative solutions.
- Engaged in the Ideathon at **KPR Engineering College**, presenting innovative concepts.
- Competed in the National Level Online Project Competition by **IEEE – Guru Nanak Institutions** Technical Campus, showcasing technical expertise.

ACHIEVEMENTS

- Won 1st prize on Project presentation by **SSM institute of Teshnology**
- Completed **UX Design** by Google on Coursera.
- Earned a certification in **Advanced Data Analytics using Python** on Udemy.
- Successfully completed three NPTEL courses: Cloud Computing, Internet of Things, and Joy of Computing using Python.
- Certified in **Artificial Intelligence Primer** by Infosys Springboard.
- Machine learning with AI using Python by NASSCOM with 70%assesment score in gold category.
- Gained expertise in Python for **Data Science and Machine Learning** on Udemy

WORKSHOP

- Participated in and successfully completed the quiz in the hands-on master class, "Build Your First Machine Learning Model," conducted by Nextwave.
- Participated in an Artificial Intelligence and Machine Learning Workshop conducted by Vinsup Academy, learning foundational concepts and applications.
- Engaged in a Mobile Application Development Workshop by S7R Technology, focusing on app design and development techniques.

CONFERENCE

- Participated in the Emerging Trends in Information and Communication Technologies conference, gaining insights into advancements in IT and communication technologies.(ETICT)
- Attended the International Conference on Emerging Electrical Systems and Control, exploring innovations in electrical systems and automation.(EESC)

HACKATHON

- Secured **2nd Prize** in a Hackathon organized by Oasys Cybernetics Pvt. Ltd. and Inext Labs, developing an AI-powered Automatic Recruitment Pipeline under the Generative AI theme within three days, from ideation to execution.
- Developed an Accessible Video for Deaf solution at Infosys Springboard iAccelerate Women's Hackathon under the theme Innovation for Inclusion.