MANASI S BYALI

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SUMMARY

Experienced in developing ETL, machine learning models, and dynamic web applications with expertise in Python, YOLO V5, and Vue.js. Proficient in data preprocessing, model optimization, and deploying scalable solutions using AWS and CI/CD pipelines. Skilled in enhancing real-time detection systems and collaborating effectively to drive innovation.

EDUCATION

B.E. in Computer Science Engineering	2024
KLE Technological University, Hubli	**7.52 CGPA**
Diploma(CS)	2021
K.L.E Society's C.I.Munavalli Polytechnic	**86%**
10th (CBSE)	2017
Anmol Public School	**8.6 CGPA**

WORKING EXPERIENCE

Software Engineer	Sep 2025 Still working
MetroMindz Software Pvt. Ltd.	*Bangalore, IN*

- Worked as a Full Stack Developer at Metromindz, contributing to the end-to-end development of scalable web applications. Designed and developed responsive user interfaces using React/Vue.js, HTML, CSS, and JavaScript to ensure a seamless user experience. Built and integrated RESTful APIs with secure business logic and managed MongoDB and SQL databases for efficient data handling and performance optimization. Collaborated with cross-functional teams using Git/GitHub, participating in code reviews, testing, and deployment activities.

IVIS LABS Pvt. Ltd.

- Feb 2024 – Oct 3, 2024 | Mysuru, IN: Developed real-time detection systems using Python, YOLOv5, and machine learning frameworks for accident prediction and facial spoofing detection, contributing to projects such as Car Accident Detection, Examination Cheating Detection, and LGC ENGG Website Development.

- Designed and optimized core algorithms, built responsive web applications using Vue.js and Bootstrap, and implemented AWS CI/CD pipelines and ETL workflows to enhance system performance and scalability.

- Developed dynamic and responsive web applications using Vue.js, JavaScript, and Bootstrap, delivering intuitive user interfaces and ensuring seamless accessibility across all devices.

- Spearheaded AWS Cloud deployments by implementing CI/CD pipelines with Git and Docker, enabling efficient, scalable, and reliable workflows for seamless project delivery.

- Designed and implemented an efficient **ETL pipeline** to automate the extraction, transformation, and loading of data from various file formats (JSON, CSV, etc.) into databases

SKILLS

Programming Languages	Python, Java,
Database	SQL, MongoDB
Tools	Git, GitHub, Docker, Selenium,
Web Technologies	HTML, CSS, MERN, Vue.js, React, Angular
Machine Learning	Scikit-learn, TensorFlow, Keras, PyTorch, Jupyter Notebook, Seaborn, Decision Trees,
Data Analytics	Pandas, Numpy, Matplotlib, Microsoft Excel, Jupyter Notebook.
Technologies	OOPs, Computer Networks.

PROJECTS

Climate Change Prediction

Developed a machine learning pipeline to predict climate patterns over 14 days using Scikit-learn, TensorFlow, and PyTorch. Pre-processed datasets, trained Decision Tree, Gradient Boost, Random Forest, and voting-based models (soft and hard voting), and leveraged AutoML for optimal model selection. Visualized key insights to enhance interpretability and decision-making. **Tools Used:** Python IDLE, Google Colab, VS Code, Matplotlib, Seaborn, Scikit-learn, TensorFlow

Lung Classification:

Developed and trained a YOLOv7 machine learning model for X-ray image classification to accurately detect lung conditions, including COVID-19, pneumonia, and other ailments. Optimized the model for high accuracy and reliable diagnostics. **Tools Used:** Python, YOLOv7

Web Messenger App

Developed a real-time messaging platform with secure user registration and dynamic ChatGPT-style interactions using HTML, CSS, JavaScript, and SQL. Implemented backend functionality and user management with Django for an interactive and seamless user experience.
Tools and Technologies Used: Pycharm, Django, HTML, CSS, JavaScript, SQL

School Management System

Developed a learning portal with user authentication and interactive features, utilizing ReactJS for the front end, Node.js for the backend, and MongoDB for the database. Ensured data privacy and security, contributing to the successful launch of the platform.
Technologies: ReactJS, Node.js, MongoDB, Express.js, JavaScript, MERN Stack

Phishing Website Detection

Developed a machine learning system to identify phishing URLs using various algorithms, including Decision Tree, Gradient Boosting, Random Forest, and voting-based models (soft and hard voting). Implemented ensembling techniques and Linear Regression to improve model accuracy. The system is integrated into an interactive website that provides resources for users to protect against phishing threats.
Tools & Technologies: Python, VScode, Scikit-learn, Pandas, NumPy, Matplotlib, Flask (for website development)

Freelancing

IMTMA Vendor Management System (MERN Stack): Developed a full-stack web application using MongoDB, Express.js, React, and Node.js to manage vendor registration, approvals, documentation, and performance tracking for industrial events.

AI WhatsApp Chatbot using Wikipedia & OpenAI API: Built an intelligent chatbot integrated with WhatsApp to answer user queries by combining Wikipedia search with OpenAI's language model for accurate, real-time responses.

Exhibition Floor Planning System: Designed a digital tool to create optimized exhibition floor layouts, manage booth allocation, and ensure efficient space utilization for event organizers.

CERTIFICATIONS

IEEE Paper Certifications
- Sentimental Analysis of Amazon Reviews Using Map Reducer Technique in Hadoop (www.IEE.BVICAM.in) :BV/ICAM/ND/1593(210)/2023-24 - https://ieeexplore.ieee.org/document/10498578
- DDoS Detection in SDN with ML and Ensemble Models (ICACIS) (www.ICACIS.in): ICACIS/24/50

Naukri
- **Young Trunk Merit Certificate / Issued by: Naukri.com/ Year: 2024**
  Awarded for outstanding performance in Round 1, demonstrating exceptional skills and merit.

AWS
- **Cloud Computing 101 /issued by: AWS /year:2023**
  I learned the basic concept of cloud computing and got hands-on experience in a lab on the cloud.

Juniper Networks
- **Juniper/Junos/issued by: Junifer/year:2023**
  Learned about Networking Concepts.

Python Completion
- **Basic Python completion /issued by: LCC /year:2021**
  I learned basic concepts of Python programming and object-oriented programming design concepts perfectly with examples.

HackerRank:
- **SQL: Basic, Intermediate, Advanced; Java: Basic / Issued by: HackerRank / Year: 2023**
  Demonstrated proficiency in SQL across all levels and foundational knowledge of Java programming through hands-on coding challenges and real-world scenarios.