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%**

PUC 2019
Smt. Vidya P Hanchinmani Pre-university
Independent Science College **62%**

10th (CBSE) 2017
Anmol Public School **8.6 CGPA**

WORK EXPERIENCE

Software Engineer Feb 2024
IVIS LABS Pvt. Ltd. *Mysuru, IN*

- Developed real-time detection systems, including accident prediction and facial spoofing detection, using Python, YOLOv5, and ML frameworks. Contributed to projects like Car Accident Detection, Examination Cheating Detection, and LGC ENGG Website Development. Designed and optimized core algorithms, resolving complex issues and enhancing system performance.
- 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. Leveraged tools like Python, Apache Spark, and SQL to process and standardize raw data for model training and evaluation. This pipeline improved data quality, optimized performance, and supported scalable machine learning solutions..
- Independently gathered requirements and designed projects for 5 clients, ensuring their needs were fully understood and met. Scheduled weekly catch-up calls to maintain strong relationships, resulting in a 12% increase in client retention. Effectively presented project progress and delivered tailored solutions to foster trust and satisfaction.

SKILLS

Programming Languages	Python, Java, C, JavaScript, Swift
Database	SQL, MySQL, PostgreSQL, MongoDB
Tools	Git, GitHub, Docker, Selenium, Pytest
Web Technologies	HTML, CSS, MERN, Vue.js, React, Angular
Machine Learning	Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, Keras, PyTorch, Jupyter Notebook, Seaborn, XGBoost, OpenCV, Data Preprocessing, Model Evaluation & Hyperparameter Tuning, Logistic Regression, Decision TreesLinear Regression.
Data Analytics	Pandas, Numpy, Matplotlib, Microsoft Excel, Jupyter Notebook.
Technologies	Linux, CI/CD, 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)

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
- **Young Trunk Merit Certificate / Issued by: Naukri.com/ Year: 2024**
  Awarded for outstanding performance in Round 1, demonstrating exceptional skills and merit.
- **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/Junos/issued by: Junifer/year:2023**
  Learned about Networking Concepts.
- **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.