JAYANTHA NANDURI

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SUMMARY

Software developer with a versatile skill set as a data scientist and full-stack developer, proficient in Python, SQL, Java, JavaScript, and statistical analysis. Skilled in React for front-end development and experience with DevOps tools, capable of delivering data-driven and scalable software solutions.

EDUCATION

Master of Science in Computer Science, Northeastern University, Boston, USA **Jan 2023 – May 2025**
Bachelor of Engineering and Technology from Mahindra University, Hyderabad, India **Aug 2016 – Sep 2020**

TECHNICAL SKILL SET

Programming languages	Python, Java, JavaScript, C, C#, C++, Scala, Matlab
Database	MySQL, PostgreSQL, MongoDB, Hive, Neo4j, Spark, Hadoop, MapReduce
Web Development	HTML5, CSS, JavaScript, React.JS, Django, Node.Js, Flask
Development Ecosystem	AWS, Docker, Kubernetes, Apache Airflows, Azure

PROFESSIONAL EXPERIENCE

Jocata Financial Advisory & Technology: Machine Learning Engineer **Oct 2020 – Dec 2022**

Technologies: Python, PostgreSQL, Pandas, Apache AirFlows, Django, Docker, AWS, Git, Apache HTTP server
Description: Developing AI-driven financial solutions, and boosting operational productivity through efficient model deployment.
- Enhanced loan management and credit assessments with data-driven strategies, leveraging historical tax data.
- Developed statistical indices to evaluate customer behaviour, balancing recent data to maintain accurate credit profiles.
- Achieved a **30**% reduction in false positive defaults, refining the bank's default detection and risk management.
- Deployed the application on AWS EC2 using Apache Server for scalability and as a reverse proxy for the application.
- Boosted operational productivity by **40**% through efficient REST API deployments with Docker, improving scalability and updates.

Jocata Financial Advisory & Technology: Machine Learning Intern **Jan 2020 - Oct 2020**

Technologies: Python, ReactJS, HTML5, MaterialUI, Django, OAuth, TensorFlow, PyTorch, Object Detection, Tesseract OCR
Description: A web application that serves as a platform to help banks onboard their customers effectively
- Developed a React.js web application for real-time bank client onboarding.
- Engineered and Integrated a Text-extracting Stack within the application, utilizing an object detection model to identify multiple languages in ID proof images and Tesseract OCR to specifically extract English text.
- Achieved an enhancement in text extraction accuracy from **80% to 95%**, significantly boosting the efficiency of the KYC verification process.

PROJECTS

Early Prediction of Sepsis: Machine Learning **Sep 2023 – Dec 2023**

Technologies: Python, Docker, Airflow, Data Version Control (DVC), Random Forest Classifier, AWS EC2
Description: Develop a machine learning model to predict sepsis in clinical settings accurately and early using the 2019 PhysioNet Challenge dataset.
- Developed an advanced machine learning model for the early prediction of sepsis, leveraging clinical data from over **40,000** patients, achieving early detection with high accuracy.
- Implemented a robust MLOps framework to streamline the deployment, monitoring, and management of machine learning models in a clinical setting.

Caption Craft: Web Application **Sep 2023 – Dec 2023**

Technologies: JavaScript, React.js, Express.js, Redux, Node.js, MongoDB, Mongoose
Description: Provide a digital space where users can express themselves through art and by generating images with prompts.
- Engineered a social media platform, Caption Craft, utilizing the MERN stack for creative expression through art and captions.
- Integrated external APIs for the retrieval of image data based on user prompts, facilitating the assessment of the model's performance and enhancing user experience.
- Implemented a Like and Dislike feature, enabling users to interact with posts in their feed, fostering a dynamic and engaging community atmosphere.

CERTIFICATIONS AND AWARDS

- Natural Language Processing With Sequence Models from DeepLearning.ai Coursera **Jul 2020 – Aug 2020**
- Awarded Academic Scholarship worth **INR 100,000**, Mahindra Ecole Centrale **Aug 2019**