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 Bachelor of Engineering and Technology from Mahindra University, Hyderabad, India

Jan 2023 - May 2025 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
- Awarded Academic Scholarship worth INR 100,000, Mahindra Ecole Centrale

Jul 2020 - Aug 2020

Aug 2019