# 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 is 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