SANDEEP BANDI

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Education

Lovely Professional University   **Jalandhar, Punjab**
Bachelor of Technology in Computer Science   *2016-2020*

Experience

Beworld Web Services   **Hyderabad, Telangana**
AI/ML Engineer   *July-2024, Sept-2024*

- Designed and implemented algorithms to analyze user interactions and track preferences, enabling personalized content delivery and improving user engagement on the platform.
- Developed and deployed recommendation systems to provide tailored post suggestions based on user behavior, preferences, and trending topics within the social media environment.
- Collaborated with cross-functional teams to integrate machine learning models, optimizing platform performance through A/B testing and advanced data analytics.
- Utilized tools such as Python3, Flask, and MongoDB to build scalable and efficient back-end services, ensuring seamless integration with the platform infrastructure.
- Leveraged AWS services and Git Actions for cloud-based deployment and automated CI/CD pipelines, enhancing operational efficiency and ensuring consistent model delivery.

Tata Consultancy Services   **Hyderabad, Telangana**
ML Backend Engineer   *Jan-2022, Feb-2024*

- Developed and optimized machine learning models to address complex business challenges, including predictive analytics, classification, and regression tasks, ensuring high accuracy and reliability.
- Implemented CI/CD pipelines with Git Actions, streamlining the deployment process and ensuring robust version control for models and applications.
- Utilized AWS services for cloud-based model deployment, data storage, and computing, ensuring high scalability and performance.
- Designed and managed databases using SQL and MongoDB, optimizing data workflows and enabling seamless integration with machine learning models.
- Containerized applications and workflows with Docker, ensuring consistent environments for development, testing, and production, enhancing deployment efficiency.

Personal Projects

Adult Census Income - LINK

- Developed a predictive model for Census Income Classification with 85% accuracy using Logistic Regression, incorporating data preprocessing and feature engineering.
- Built efficient data pipelines for preprocessing, transformation, and categorical encoding tasks.
- Deployed Flask-based web application for predictions via AWS Elastic Beanstalk.
- Automated CI/CD pipelines using Docker, GitHub Actions, AWS EC2, and ECR.
- Conducted EDA and visualizations to improve insights, feature selection, and accuracy.
- Tech Stack: Python3, Flask, Scikit-learn, Pandas, MongoDB, Docker, AWS (Elastic Beanstalk, EC2, ECR)

Gemstone Price Prediction- LINK

- Developed end-to-end gemstone price prediction model using advanced ML algorithms and preprocessing techniques.
- Designed data pipelines for seamless ingestion, transformation, feature engineering, and real-time predictions.
- Deployed Flask-based web application on AWS Elastic Beanstalk with Docker and CI/CD pipelines.

Technical Skills

DS/ML/AI: Machine Learning, Deep Learning, NLP. (Scikit-learn, TensorFlow, Keras, and NLTK)
MLOps & Deployment: MLflow, GitHub Actions (CI/CD), DVC, and cloud platforms like AWS (Beanstalk, EC2).
Backend Development & Data Management: Flask, Fast API, Streamlit, SQL, MySQL, MongoDB, and PostgreSQL.
Data Orchestration & Automation: Apache Airflow for workflow orchestration and ETL pipeline.
Containerization & Visualization: Docker, Grafana, Matplotlib and Seaborn.

Certifications

Udemy Certifications: Complete Machine Learning, NLP Bootcamp MLOPS & Deployment.
Languages/Technologies: Python, Machine Learning, NLP, MLOps, Flask, AWS, Docker, Apache Airflow, MongoDB.