Sowjanya Bojja

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Summary

Expertise in AI and machine learning models, data analysis, pattern recognition, and enhancing algorithm efficiency. Proficient in Python, machine learning algorithms, and data visualization tools. Effective collaborator and creative problem solver.

Skills

Programming: Python, Java, C
Tools: Git, GitLab, CLI, JupyterLab, VS Code, Toad, SQL Developer, IntelliJ IDEA, Anaconda
Database: SQL (PostgreSQL, MySQL, Oracle), NoSQL (MongoDB)
OS: Linux, Windows, Mac OS
Cloud: Google Colab
Big Data: Kafka, PySpark
Web Frameworks: Flask, Streamlit, Java Swing, Django
Data Visualization: Tableau, MS Excel, Matplotlib, Seaborn, PowerBI
Other: Microservices Architecture, Docker, ReactJS, NodeJS, Spring Boot, Large Language Models (LLM)
Machine Learning & Deep Learning:
- **Libraries**:NumPy,Pandas,Scikit-learn,NLTK,TensorFlow,PyTorch,(Tensorflow,Keras,Open-CV,Scikit-Learn,Pandas,Numpy,Matplotlib,Seaborn,BeautifulSoup,Scrapy) , NLTK,TensorFlow, PyTorch
- **Techniques**:DataExploration & Analysis, DataModeling,Statistics and Probability, Linear Regression, Gradient Descent, Logistic Regression, Regularization, SVM, KNN, Decision Trees, Random Forest, Ensemble Techniques, Bagging & Boosting, Cross-Validation, Cluster Analysis, Hyperparameter Tuning, Experiment Tracking, and Model Management using MLflow, MLOps
- **NLP Techniques**: Tokenization,BagofWords, Stemming, Lemmatization, POS Tagging, TF-IDF, BERT, Word2Vec, GloVe
- **Deep Learning:** Neural Network Architectures (CNN, RNN, LSTM), Computer Vision (Image Classification, Object Detection, Image Segmentation), NLP Tasks (Sentiment Analysis, Text Classification, Language Modeling, Generative AdversarialNetworks),OptimizationTechniques(GradientDescent).
Soft Skills: Problem Solving , Team Collaboration , Communication , Time Management

Education

Master of Science (MSC) in Data Science Chandigarh University, India   July 2022 - August 2024
Relevant Coursework: Python Programming, Calculus and Linear Algebra, Applied Probability and Statistics, Data Analysis and Visualization, Communication and Soft Skills, Machine Learning, SQL Programming, Advanced Machine Learning, Advanced Database Management, Deep Learning, Optimization, Natural Language Processing,Web Technologies,Cloud Native Development,Java Programming,Data Structures and algorithms,NLP,Applied Business Analytics,Data Mining and Data warehousing,data Engineering.
Bachelor of Technology (B. Tech) in Electronics and Communications JNTU, India   2002 - 2006

Certifications

- Certification in Data Science with IBM Registered Business Partner.   2020   -   2022
- Data Visualization with Tableau, Power BI, Advanced MS Excel   2022   -   2023
- Machine Learning with Python, NLP   2022   -   2023

Experience

Position: AI Intern
Company: Mentorness
Date: Feb 2024 - April 2024
- Developed ATS Resume Expert application using Generative AI.

Position : Data Science Intern
Company : Bharat Intern
Date :   Dec 2024 - Feb 2024

- Implemented SMS spam/ham classifier.
- Developed Titanic data classification model.

Position   : ML Intern
Company : Cognifyz Technologies
Date   : Jan 2024 - Mar 2024

- Implemented ML algorithms for income and gold price prediction.

Position   : Student Intern
Company : Internshala Trainings
Date   : Jan 2023 - Dec 2023

- NLP Projects: Auto-correct, Next Word Generator.
- Tableau Project: Bikehaven.
- SQL Project: IPL Data Analysis.

Position : Data Science Intern
Company: Innomatics Research Labs
Date   : July 2022 - Nov 2022

Career Break (to take care of my family) From 2014 to 2021

Position   : Systems Engineer Employer
Company : Tata Consultancy Services
Date   : Jan 2008 - Mar 2014
- Tools: TOAD, PL/SQL Developer, Forms, Reports.

Sample Projects:

ATS Resume Expert Application
Developed using OpenAI's Generative AI. Github:ATS

Fraud Detection Using Big Data
Implemented with Kafka and PySpark.Github : Fraud Detection

Sentiment Analysis and EDA with Databricks
Classified and analyzed sentiment in text data.Github links : GitHub   and sentiment

Image Captioning with OCR and GenAI
Integrated OCR and Generative AI for generating image captions Github link : .image

Microservices with Spring Boot
Created scalable microservices architecture with RESTful APIs. GitHub Link: Microservices

Quora Duplicate Question Detector end to end project with MLOPs Github link: MLops

Other Projects: Auto correct project(Spelling corrector) | Next Word Generator ,Tableau Project: Bike haven project
Tableau project link , IPL Data Analysis using SQL(Postgresql) and Data visualization using Excel , Data Visualization
with Advanced Excel Analysis of Fitbit fitness tracker data to deliver marketing and business solutions to WeFit and its
subsidiaries