JEFFREY DAVID

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ABOUT

Committed engineering graduate with a B.Tech in Computer Science from VIT, Vellore. Honed my skills at Accenture and currently pursuing M.Sc. Information Systems at NTU. Dedicated to advancing my career as an AI/ML Engineer while fostering innovation.

EXPERIENCE

Accenture Solutions Private Limited Bangalore, India
Big Data Engineer 11/2022 - 08/2023

- Received technical training in Apache Hadoop File System and acquired proficiency in various big data analytics tools such as Apache Hive, Spark, Cassandra, and more as a fresher.
- Received recognition for outstanding performance during the Accenture Greenfield Training Program.
- Designed end-to-end data pipelines using Cloudera Distribution of Hadoop and other tools like tools such as Hive and Pig.
- Increased data processing efficiency by 10% through the successful implementation of ETL processes, resulting in faster data movement from various sources.
- Implemented ETL (Extract, Transform, Load) processes to move data from various sources to the cloud-based infrastructure.
- Documented processes, procedures and best practices for Hadoop cluster management and data Engineering.

INTERNSHIPS

TalentKraft Pte Ltd Singapore
AI Project Development Intern 01/2024 - Present

- Conduct research and data gathering on relevant data for goal setting and performance review, including feasibility studies to assess the viability of AI implementation.
- Design and Develop Gen AI based solution to assist organizations spanning diverse sectors, from pharmaceuticals to manufacturing in their Goal Setting and 360 PerformanceReview Process

The Sparks Foundation Vellore, India
Graduate Rotational Internship Program (Remote) 02/2021 – 03/2021

- Conducted thorough data analysis to identify patterns, trends and anomalies in diverse datasets.
- Evaluated the performance of machine learning models using appropriate metrics and fine-tuned algorithms.
- Implemented data preprocessing techniques to clean, normalize and transform raw data into suitable formatsfor machine learning models.

EDUCATION

Nanyang Technological University Singapore
Master of Science in Information Systems 08/2023- Present

- Achieved a Cumulative Grade Point Average (CGPA) of 4.80 /5.00.
- Completing in May 2024.
- Focusing on Data Science and Text Mining through my choice of coursework specialization.
- Courses: Text and Web Mining, Data Mining, Intrusion Detection, Research Methods for Data Analysis, Information Retrieval and Information Visualization.

Vellore Institute of Technology Vellore, India
B.Tech Computer Science and Engineering 06/2018 – 05/2022

- Graduated with a CGPA of 8.78 / 10, demonstrating consistent academic excellence and dedication to academic pursuits.
- Core Courses: Data Structures and Algorithms, Operating Systems, DBMS, Computer Architecture
- Elective Courses: Web Mining, Statistical Data Analytics and Artificial Intelligence for Beginners

SKILLS

- **Programming** - Python, Java, C, JavaScript
- **AI** - Machine Learning, Deep Learning, Large Language Models(LLMs), Generative AI, PyTorch
- **Data Science** - Data Engineering, Data Modelling, Web Mining, NLP
- **Data Visualization** - Business Intelligence(BI), Tableau, D3.js
- **Software Development** - HTML, CSS, Java Servlet, JSP, MySQL, Database Design
- **Cloud Based Infrastructure** – AWS Deployment, Cloud Computing
- **Soft Skills** - Communication, Project Management, Self-Motivated, Innovation, Problem-Solving

PROJECTS

Aspect-Based Sentiment Analysis of LGBTQ Issues in Singapore

Text Mining, Deep Learning, Natural Language Processing, Tableau 01/2024 - Present

- Reviewed multiple research publications to identify optimal practices and formulate effective solutions.
- Web Scrap data from online discussion platforms like Reddit and HardwareZone.
- Execute syntax data cleaning and data preprocessing tasks utilizing libraries such as NLTK and Spacy.
- Train and evaluate a BERT based Transformer Model for Sentiment and Aspect Classification
- Analyze the Aspect based Sentiments with respect to Time using Visualizations to gain insights.

Twitter Sentiment Analysis with MLP, CNN and BERT

Text Mining, Deep Learning, Natural Language Processing 08/2023 – 11/2023

- Developed a machine learning model using Multilayer Perceptron (MLP), Convolutional Neural Network(CNN) and Transformer-based BERT Model for Twitter Sentiment Analysis using PyTorch.
- Implemented data preprocessing, model training and evaluation.
- Collaborated with team members to optimize the models to achieve an accuracy of 92.57%.

Singapore COVID-19 StoryBoard

Data Visualization, Tableau 08/2023 – 11/2023

- Developed a comprehensive COVID-19 StoryBoard focusing on the situation in Singapore.
- Utilized Tableau for creating insightful data visualizations and interactive dashboards.
- Collected and analyzed relevant data for the StoryBoard.

Deep Learning Model for Analyzing Water Quality, Level and Flow of Cauvery River

Deep Learning, Environmental Analysis 11/2021 – 05/2022

- Developed a Deep Learning model to analyze water quality, level and flow of the Cauvery River in India.
- Implemented features to predict and monitor environmental parameters.
- Contributed to the understanding and assessment of water resources using advanced technology.
- Utilized the Neural Prophet model to forecast water level and water flow for the upcoming three years.
- Acknowledged for significant contribution to the Deep Learning Model for Analyzing Water Quality, Level, and Flow of Cauvery River, which is currently under consideration for publication.

Cataract Classification using CNN

Computer Vision, Deep Learning 11/2020 – 04/2021

- Implemented a Convolutional Neural Network (CNN) for the classification of cataracts.
- Trained the model on a dataset to accurately identify cataract conditions from medical images.
- Employed different Computer Vision Algorithms and Hyper Parameter Tuning to attain the accuracy of 93.20%.

CERTIFICATIONS

- Certificate of Completion of Accenture Greenfield Training Program 01/2023 – 11/2022
- Intro to TensorFlow for Artificial Intelligence, Machine Learning and Deep Learning 03/2021 – 04/2021
- Artificial Intelligence for Beginners 04/2020 – 05/2020
- Machine Learning Using Python 04/2020 – 05/2020
- Statistical Data Analytics for Business Research 04/2020 – 05/2020
- Data Science for Engineers - NPTEL 01/2021 – 03/2021
- Programming in Java 05/2016 – 06/2016