

JEFFREY DAVID

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EXECUTIVE SUMMARY

Computer Science graduate from VIT with an M.S. in Information Systems from NTU and experience from my tenure at Accenture and AI-focused internships. Proficient in Data Science, Deep Learning and Big Data Engineering, I am dedicated to advancing my career in Technology while fostering innovation and problem-solving skills.

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.
- Received recognition for outstanding performance during the Accenture Greenfield Training Program.
- Designed end-to-end data pipelines using Cloudera Distribution of Hadoop and tools like 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 processes to move data from various sources to the cloud-based infrastructure.

INTERNSHIPS

TalentKraft Pte Ltd

Singapore

AI Project Development Intern

01/2024 – 03/2024

- Conducted research and data gathering on relevant data for goal setting and performance review.
- Designed Gen AI based solution to assist organizations spanning diverse sectors, from pharmaceuticals to manufacturing in their Goal Setting and 360 Performance Review Process
- Developed the website as a MERN Stack application following Agile development methodologies.
- Utilized OpenAI API to implement centralized organizational objectives tailored to department and individual KPIs.

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 formats for machine learning models.

EDUCATION

Nanyang Technological University

Singapore

Master of Science in Information Systems

08/2023- 06/2024

- Graduated with a Cumulative Grade Point Average (CGPA) of 4.80 /5.00.
- 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 / 10.00, demonstrating consistent academic excellence.
- Core Courses: Data Structures and Algorithms, Operating Systems, DBMS, Computer Architecture, Mathematics

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
- **Big Data Technologies** – Hadoop, Hive, Pig, Cassandra, Spark.
- **Software Development** - HTML, CSS, Java Servlet, JSP, SQL, Database Design, Node.js, React.js
- **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

Large Language Model, Deep Learning, Natural Language Processing, Tableau 01/2024 – 04/2024

- Developed and implemented a robust methodology for sentiment analysis on LGBTQ+ discussions.
- Successfully collected diverse datasets from HardwareZone and Reddit, demonstrating proficiency in web scraping.
- Extracted aspect terms using predefined lists and manual labelling, showcasing attention to detail.
- Achieved weighted avg accuracy of 81% in Aspect Based Sentiment Analysis after fine-tuning the Flan-T5 model.
- Provided valuable insights into attitudes towards LGBTQ+ issues in Singapore, contributing to the field of research.

Decentralized Electronic Healthcare System

React.js, Node.js, Solidity, Truffle, Web3, Blockchain, Ethereum 01/2024 – 04/2024

- Developed a decentralized healthcare system, focusing on appointment scheduling, payment and record management.
- Implemented an escrow-based method using smart contracts to manage appointments, ensuring secure and transparent transactions between patients and healthcare providers.
- Crafted a custom DEH token utilizing ERC20 standards to facilitate secure and efficient payment system.
- Implemented role-based access control and data privacy measures to protect patient information.

Twitter Sentiment Analysis with MLP, CNN and BERT

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

- Developed deep learning model using Multilayer Perceptron (MLP), Convolutional Neural Network(CNN) and BERT Model for Twitter Sentiment Analysis using PyTorch.
- Conducted data preprocessing, data transformation and feature engineering for unstructured text data.
- Trained the models to optimized them to achieve an accuracy of 92.57%.

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

Deep Learning, Environmental Analysis, Data Analysis, Predictive Modelling 11/2021 – 05/2022

- Developed 3 Deep Learning models to predict water quality, level and flow of the Cauvery River in India.
- Implemented features to predict and monitor environmental parameters that determines the water quality.
- Utilized the Neural Prophet model to forecast water level and water flow for the upcoming three years.

CERTIFICATIONS

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|---|-------------------|
| • 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 |