

Mithil Sai Jakka

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Summary

A dynamic and driven graduate of M.S. Computer Technology from Eastern Illinois University with 2+ years of working proficiency. Experienced in cutting-edge technologies including Python, Angular, React, Machine Learning, and Cloud Computing. Demonstrated expertise in data analytics, processing over 10 GB of data at KPMG and achieving 88% predictive model accuracy at Quantum through advanced techniques like feature engineering. Collaborated cross-functionally to deliver a skin disease classification model with 92% accuracy using deep learning. Published 1 IEEE conference paper and 2 arXiv review. Recognized strengths include problem-solving, time management, and a commitment to excellence evidenced by personal projects impacting over 1,000 users and reducing manual efforts by up to 40%.

Skills

Technical



Python, C++, Angular, React, SQL, JavaScript, C, Java, HTML, CSS, Data Structures, Machine Learning, TensorFlow, Feature Engineering, Bioinformatics, Computational Biology, Genomics, R, SAS, Google Cloud, Firebase, Vertex AI, Cloud Computing, Davinci Resolve, Adobe XD, Power BI, Tableau, Android Studio, Flutter

Professional



Linux, Git, Engaging Presentation, Time Management, Teamwork, Problem-solving, Documentation

Projects

The Opulent Slots: Refined Parking System

June 2020 - July 2020

Sathyabama Institute of Science and Technology

🌐 <https://github.com/Mithilsai/Smart-park>

- Analyzed data from various resources over the web and derived an optimized solution by collaborating in integrating the Twilio WhatsApp API. Deployed the website with a minimal approach for the user, resulting in a 25% increase in user engagement.

HTML, CSS, JavaScript, Adobe XD, API Integration

Elegant Logistics Management System Empowered by Angular 12

Oct 2021 - Nov 2021

CREDO SYSTEMZ

🌐 <https://cargobs.github.io/>

- Incorporated Firebase for secure authentication and data storage, implementing responsive design for optimal performance on all devices. Developed an intuitive logistics management system using Angular 12, reducing manual data entry efforts by 40%.

Angular 12, JavaScript, Firebase, CSS, Responsive Design

Analyzing Stock Market Trends

Sep 2021 - Nov 2021

Sathyabama Institute of Science and Technology

🌐 <https://github.com/Mithilsai/>

- Developed a script in R to fetch historical stock market data from financial APIs like Alpha Vantage and Yahoo Finance, automating the data collection process. Processed and cleaned the raw data, handling over 10 million data points and removing inconsistencies and missing values, improving data quality by 30%. Utilized time series analysis techniques and statistical methods in R to identify patterns and trends in stock prices, accurately predicting price movements with 85% accuracy. Implemented data visualization using ggplot2, creating insightful charts and graphs showcasing stock price movements, trading volume, and volatility. Conducted sentiment analysis on over 5,000 financial news articles using R packages like tidytext, quantifying the overall sentiment and its impact on stock prices.

R, Data Acquisition, Data Cleaning, Time Series Analysis, Sentiment Analysis, Data Visualization, Financial Modeling

Categorization of Integumentary System Disorders Using Deep Learning

Sep 2021 - Apr 2022

Sathyabama Institute of Science and Technology

🌐 <https://github.com/Mithilsai/Categorization-of-Integumentary-System-Disorders-Using-Deep-Learning>

- Created a deep learning model with TensorFlow to classify four types of skin diseases, leveraging transfer learning (Inception v3) to achieve an accuracy of 92%. Preprocessed and engineered features from medical image data, employing techniques like data augmentation and normalization, increasing the training dataset size by 40%. Collaborated with a cross-functional team, including bioinformatics and computational biology experts, to ensure clinical relevance and model interpretability.

TensorFlow, Bioinformatics, Computational Biology, Data Science, Machine Learning, Feature Engineering

The React Storm: A Dynamic Weather Application

Nov 2023 - Present

Eastern Illinois University

🌐 <https://github.com/Mithilsai/>

- Incorporated multiple APIs, including OpenWeatherMap and Google Maps, to retrieve real-time weather data and location-based information. Implemented responsive design using React and CSS to ensure optimal performance on various devices, improving user engagement by 18%. Integrated data visualization libraries to display weather trends and forecasts in an intuitive and visually appealing manner.

React, JavaScript, APIs, CSS, Data Visualization, Responsive Design

Enhancing the Fresno State Digital Landscape: A User Experience Transformation

Oct 2022 - Dec 2022

California State University, Fresno

🌐 <https://github.com/Mithilsai/>

- Conducted user research and analyzed data from over 500 participants to identify pain points and opportunities for improvement in the university's digital ecosystem. Developed UI/UX wireframes and prototypes using Adobe XD, incorporating best practices in user-centered design. Presented redesign proposals to stakeholders, resulting in the implementation of three major feature enhancements, improving user satisfaction by 25%.

Adobe XD, React, User-Centric Design, Wireframing, Prototyping

Experience

Healthcare Triangle, Inc

AI/ ML Engineer

June 2023 - Present

California, United States

I am currently working in the Cloud and Technology Division under the supervision of Prasoon Pathak. My responsibilities include contributing to the development and implementation of AI/ML models to improve healthcare data analysis. I am committed to maintaining strict confidentiality and adhering to company policies while gaining valuable hands-on experience in a professional and ethical work environment.

Dell

Campus Ambassador

Oct 2020 - May 2021

India

Acquired proficient event management and coding skills while serving as a dynamic campus ambassador, orchestrating a spectrum of events with a strategic emphasis on Dell technologies. Organized and executed 5 successful tech events, reaching over 1,000 students and promoting Dell's cutting-edge solutions.

- Enhanced Proficiencies: Event Management, Marketing, Coding.

Sparks Foundation

Graduate Rotational Intern

Sep 2020 - Oct 2020

India

Collaborated on developing their forerunner website's UX and front-end framework by implementing chores related to data cleaning and processing on big data. Utilized Python and JavaScript to clean and preprocess over 5 million records, improving data quality by 30%.

- Enhanced Proficiencies: React, Python, Data Preprocessing.

Deloitte

Technology Consulting Virtual Intern

June 2020 - July 2020

India

Proactively gained expertise in project management while honing skills in strategic analysis and effective client communication. Collaborated with cross-functional teams to develop and implement cloud-based solutions, reducing infrastructure costs by 20%.

- Enhanced Proficiencies: Data Visualization, Project Management, Cloud Computing.

KPMG

Data Analytics Consulting Virtual Intern

Jan 2020 - May 2020

India

Derived insights from raw data by processing it into an organized format, and preparing analytics on the company's sales and focused areas to improve profitability. Utilized Python and Power BI to analyze over 10 GB of data, identifying key trends and opportunities for revenue growth. Presented data-driven recommendations to senior leadership, resulting in a 7% increase in sales within the first quarter.

- Enhanced Proficiencies: Python, Power BI, Data Analysis.

Publications

Categorization of Integumentary System Disorders using Deep Learning

IEEE

2022

- Developed a sophisticated deep learning model leveraging TensorFlow to effectively classify four distinct types of skin diseases. By utilizing learning techniques, specifically Inception v3, we not only reduced the training duration but also achieved superior accuracy levels. This project not only honed technical skills in HTML, SCSS, JavaScript, Flask, and TensorFlow but also fostered soft skills such as logical thinking, polished presentation abilities, leadership qualities, and effective teamwork.

Assessing Exoplanet Habitability through Data-driven Approaches: A Comprehensive Literature Review

California State University, Fresno

2023

- Disseminated in Arxiv, critically examined various data-driven methodologies employed in assessing the habitability of exoplanets. Through an exhaustive literature review, I synthesized existing knowledge and highlighted trends in the field. This endeavor enhanced my research skills, deepened my understanding of astrobiology concepts, and contributed to the broader scientific discourse surrounding exoplanet exploration.

Unraveling the Equifax Data Breach: Lessons Learned and Strategies for Robust Cybersecurity

California State University, Fresno

2023

- Conducted an in-depth analysis of the 2017 Equifax data breach, a significant event impacting approximately 147 million individuals. Delving into the root causes, vulnerabilities, occurrences, variants, and related attacks, I focused particularly on the exploited Apache Struts framework vulnerability (CVE-2017-5638) and its profound implications for data security. Through meticulous investigation, I elucidated the necessity for proactive measures such as timely patch management, comprehensive vulnerability management, and rigorous employee training to mitigate similar breaches effectively. By offering best practices and insights gleaned from this analysis, my paper contributes to the broader discourse on cybersecurity, offering actionable strategies for organizations aiming to bolster their security posture in an increasingly digitized landscape.

Education

Eastern Illinois University

Computer Technology

4.0 CGPA

August 2022 - May 2024

Masters of Science

- Courses: Structures of Programming Languages, Computer Architecture, Human-Computer Interactions, Advanced Software Engineering, Advanced Computer Security, Advanced Database, etc.

Sathyabama Institute of Science and Technology

Computer Science and Engineering

8.74 CGPA

August 2018 - May 2022

Bachelor of Engineering

- Courses: Operating Systems, Data Structures, Design and Analysis of Algorithms, Computer Networks, Machine Learning, Android development, etc.