

Sidharth Sherla

Phone: +91 9182969619

Email: Sidharth.sherla121@gmail.com

www.linkedin.com/in/sidharthsherla

EDUCATION

Bachelor of Technology in Computer Science and Data Science | Institute of Aeronautical engineering| Expected May 2025 | CGPA : 8.09/10.0
Narayana Junior College (94.1%) | Kukatpally Hyd
P.N.M High School (9.70/10.0) | Kukatpally Hyd

SKILLS

General skills: Machine learning, Data Science, Data Analytics, Predictive modelling, data mining, data visualization.
Specific skills: Supervised learning, Unsupervised learning, Clustering, PCA, Tree-based modelling, Alpha-Beta Pruning.
Algorithm Skills: Linear Regression, Logistic regression, Random Forest, KMeans clustering, Hierarchical clustering, Decision Tree, Naive Bayes, Support Vector machines.
Python libraries: pandas, NumPy, SciPy, sklearn, TensorFlow, PyTorch, matplotlib, seaborn, jupyter.
Programming Languages: Java, SQL, Python, PySpark.
Cloud Technologies: AWS, GCP
J2EE Technologies: Servlets, JSP, JavaBeans, JDBC, JSF, Microservices, Web Services (REST)
Web Technologies: HTML, HTML5, TypeScript, Tailwind CSS, JavaScript, JSON, XML, Bootstrap, React Native.
Databases: MySQL, Oracle, MongoDB, PostgreSQL.
Development Tools: GitHub, Jenkins, Postman, Maven, Docker, Kubernetes.

EXPERIENCE

Intern, *Evigway, Dehradun* | Nov 2023 – Dec 2023 ([Certificate](#))

- Managed data cleaning, transformation, and quality checks, ensuring high-quality input for AI models.
- Built and optimized predictive models using algorithms like Linear Regression, Decision Trees, and KMeans Clustering to address business challenges.
- Developed Python and SQL scripts to automate data workflows, leveraging PySpark for large-scale data processing.
- Utilized PyTorch for model development and deployment within Jupyter notebooks.
- Conducted data analysis to uncover trends and created visualizations using matplotlib and seaborn to present insights to stakeholders.
- Stayed updated with emerging ML techniques and shared knowledge within the team for continuous improvement.

Intern, *AICTE, HYD* | Aug 2023 – Oct 2023 ([Certificate](#))

- Studied various ML models and identified optimal use cases for each, building a strong foundation in model selection and application.
- Conducted sentiment analysis on restaurant reviews to derive customer insights, utilizing NLP techniques for text processing and feature extraction.
- Created visualizations to present sentiment analysis findings to stakeholders, using data visualization tools to enhance understanding.
- Engaged in ongoing learning of ML techniques and NLP methods to improve model accuracy and adapt to evolving project requirements.

PROJECTS:

IN-MEMORY DATABASE WITH ADVANCED INDEXING

- Built a high-performance in-memory database system in Python to support rapid data access and manipulation.
- Implemented multiple index types, including B-tree, Hash, Trie, and Skip List, optimizing for various query patterns and enhancing retrieval speed.
- Designed a flexible schema system and a simple, custom query language to accommodate diverse data models and simplify data interaction.
- Implemented efficient serialization/deserialization mechanisms to minimize memory footprint and improve data handling.
- Enabled concurrent access through fine-grained locking mechanisms, ensuring data consistency and performance under multi-threaded conditions.
- Developed custom memory management routines to optimize memory usage, tailored for in-memory operations.

CAR-POOL APP

- Built a carpooling application using React Native, Node.js, and PostgreSQL, enabling users to offer and request rides within the community.
- Implemented a matching algorithm for connecting riders and drivers, with an optional payment feature for seamless transactions.
- Integrated OneSignal to provide users with real-time notifications for ride status updates, ensuring timely communication.
- Utilized OpenStreetMap for accurate location tracking and route planning, enhancing user experience with efficient navigation.

- Developed secure user authentication and data handling, ensuring user data protection and app reliability.
- Employed Redux for efficient state management, enhancing the app's responsiveness and scalability.

CERTIFICATIONS & TRAININGS

[Career Essentials in Data Analysis by Microsoft and LinkedIn](#) (LinkedIn Learning),

[Full-Stack Development 101: What is Full-Stack Development ?](#) (simpliLearn),

[Career Essentials in GitHub Professional Certificate](#) (LinkedIn Learning),

[DataBase Management Systems certification](#) (NPTEL)