ROHAN REDDY MELACHERVU

Email: rohan.reddy.melachervu@gmail.com | Mobile: +91 98459 51056

Passionate, swift, adaptable, and result-focused learner. Insightful, studious, distinctive analytical and logical skills combined with proficiency in programming languages. Toils towards transforming human society leveraging cutting-edge technologies.

Professional Links
- Linkedin - https://www.linkedin.com/in/rohan-reddy-melachervu-326b74219
- GitHub - github.com/rohanreddymelachervu
- LeetCode - https://leetcode.com/bruhan_reddy/

TECHNOLOGY STACKS

Stacks/Architectures/Frameworks:	*Spring Boot, Apache Spark, Apache Hadoop, Django, Flask, Firebase, React*
PaaS/IaaS:	*AWS*
Big Data:	*Hadoop, Spark*
AI/ML	*Linear Regression, LSTM, SVM, KNN*
Databases:	*MySQL, PostgreSQL, NOSQLs – Redis, MongoDB*
Web:	*WebSocket, Apache Tomcat, WSGI*
Operating Platforms:	*Windows, Kali Linux, Ubuntu*
Development Environments:	*NetBeans, Eclipse, Visual Code, IntelliJ, Jupyter, GitHub, JIRA, CI/CD, Containers, VMs, Docker, Postman, Insomnia*
Programming Languages:	*Python, JavaScript, Java, MySQL, Golang, C, C++*
Execution Process:	*Scrum, Rapid, Agile*

EXPERIENCE

Oct'22 – Present **Python Developer (Intern), Webknot Technologies** **Bengaluru, India**
- Worked with multiple clients in big projects including ETL, Data Engineering, Back End Development
- Worked with Pandas (Python) to pre-process and modify datasets
- Worked with Firebase to deploy functions with Node

June'22 – July'22 **Project Intern, Naldeo Technologies & Industries** **France**
- Time Series Decomposition and mapping of Congestion values with Solar Grid Power

Jan'22 – Apr'22 **Department of Health & Family Welfare, Govt of AP** **Amaravati, AP, India**
- Performed Data Analysis using Forecasting and Data Visualization on Cancer cases dataset
- Data Cleaning and VLook-Up on the dataset

ACADEMIC PROJECTS

Subjective Answer Evaluation
- Created a Python app using Flask which can auto evaluate an uploaded answer
- Used NLP techniques such as cosine similarity, Jaccard Similarity, Key word extraction and matching
- Codebase - https://github.com/rohanreddymelachervu/Subj-Ans-Eval-NLP-

Bitcoin Price Notifier
- Created a Bitcoin price notifier using Python Flask which reads the bitcoin price every 10 seconds and when price hits a certain value entered by user, sends an email to the user using Redis. Also integrated an embedded DB along with SQLAlchemy
- Database used: SQLITE
- Codebase - https://github.com/rohanreddymelachervu/BitCoin-Notifier

Solar Power Prediction
- Solar power prediction on Standard Benchmark Solar Power dataset
- Time series analysis and decomposition using Python
- LSTM R2 score 0.78
- Codebase - https://colab.research.google.com/drive/1uh0Z3fRsco2ruvd_8DT-muXNB-F75qtS?usp=sharing

Java Spring Boot Animal Fact
- Created a Java Spring Boot app which returns an animal fact about a dog or cat when a POST request is sent to a certain endpoint
- Used H2 as an embedded database and Postman to send GET/POST requests
- Also implemented a custom filter with API Key authentication for certain endpoints

- Codebase - https://github.com/rohanreddymelachervu/SpringBoot-Animal-Facts-APIs

Operating Systems Project - Secure File Storage on Cloud Using Cryptography
- The objective is to store files on an Amazon S3 bucket securely leveraging Public Key Cryptography (asymmetric key)
- Implemented file management, encryption, decryption, steganography in Python with a distributed architecture comprising of AWS S3 buckets and RDBMS (MySQL)
- Codebase - https://github.com/rohanreddymelachervu/File-management-with-AmazonS3

User-Address Spring Boot
- To understand Hibernate and JPA in more detail.
- Made a many-to-many mapping of users to respective addresses using Java Spring Boot paradigm
- Used Apache MySQL Database and Postman to send GET/POST requests.
- Codebase: https://github.com/rohanreddymelachervu/Applicom-Spring-Boot

EDUCATION

B. Tech - 2019-23	**Computer Science and Engineering** **Vellore Institute of Technology, Chennai, India** Relevant Course work: Data Structures and Algorithms, Networks, Parallel and Distributed Computing, Operating Systems, Web Mining, Database Management Systems, Natural Language Processing, Internet and Web Programming, Big Data Processing.	**CGPA 8.29/10**
10+2 (PUC) - 2017-19 (CBSE)	**Mathematics, Physics, and Chemistry** **Sri Chaitanya Techno School, Bengaluru, India**	**88.4%**
SSC – 2016-17 (CBSE)	**Math, Sciences, Social Studies, English, Hindi**	**CGPA 9.6**

PERSONAL DETAILS

Date of Birth: 14th May 2001
Languages Known: English, Telugu, Kannada, Hindi, Spanish
Residential Address: C-501, Salarpuria Serenity, 5th Main, Sector 7, HSR Layout, Bengaluru 560102, India

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