



ROHAN REDDY MELACHERVU

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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 - <https://www.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 ▪ 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	Bengaluru, India
June'22 – July'22	Project Intern, Naldeo Technologies & Industries ▪ Time Series Decomposition and mapping of Congestion values with Solar Grid Power	France
Jan'22 – Apr'22	Department of Health & Family Welfare, Govt of AP ▪ Performed Data Analysis using Forecasting and Data Visualization on Cancer cases dataset ▪ Data Cleaning and VLook-Up on the dataset	Amaravati, AP, India

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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