

# KrishnaprabhatRao Jupally

Portfolio: krishnaprabhatrao.in

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## EDUCATION

- Jawaharlal Nehru Technological University** Hyderabad, India  
*TKR College of Engineering and Technology (site)* July 2018 - July 2022  
Bachelor of Technology-Computer Science and Engineering **CGPA: 8.96/10**  
*Courses: Operating Systems, Data Structures, Analysis Of Algorithms, Discrete Mathematics, Differential Equations, Networking, Databases*

## SKILLS SUMMARY (B:BEGINNER,I:INTERMEDIATE,P:PROFICIENT)

- Languages:** JavaScript(I), SQL(I), JAVA(I),Python(P),C++(I)
- Frameworks:** NodeJS(P),ExpressJS(I),ReactJS(I),Flutter(B)
- Tools:** Docker(B), GIT(I), MySQL(I), MongoDB(I)
- Platforms:** Linux(I), Web(P), Windows(I) , AWS(B)
- Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

## EXPERIENCE

- Krishi Network Inc** Remote  
*SDE Intern (Full-time)* July 2021 - Sep 2021
  - TechStack used:** Flask,PostgreSQL,Firebase, SQLAlchemyORM ,Google cloud services like BigQuery and AWS services like AWS Redshift for DataWarehousing ,AWS Celery for Asynchronous Computing (reducing load on the Main Thread of The system),AWS EC2
  - Data Layer Automation using ETL Scripts:** Automated the process of data collection from different sources like AWS RedShift,Google firebase etc and integrating them into a single centralized datawarehouse.Built a central dashboard which accepts Queries and returns the analytics.
  - Built a Ads Pipeline:** This pipeline automates the process of collecting the user leads from facebook, youtube marketing campaigns;and forward the automatic generated analytics of the day to the company clients everyday.
- Kahaniya(India's Disney)** In-Office  
*SDE Intern (Full-time)* March 2021 - May 2021
  - TechStack used:** NodeJS(ExpressJS),MongoDB,ReactJS,Mocha Testing Framework,MongooseORM,Redux,Firebase
  - Completely Refactored the Central Admin Dashboard and Payment module for Kahaniya Mobile App using ReactJS,Redux and ExpressJS.:**
  - Built REST API for PaymentGateways ,Assessment, Admin Dashboard:**
  - Built two projects namely "COVID Dashboard" and "DiLSeY" for the company client SCSC(Society for Cyberabad Security Council):**
- Chegg Inc** Remote  
*Subject Matter Expert(Part-time, Contractual)* Dec 2020 - Present
  - Responsibility :** Solving the questions posted online by the college students of USA and Canada on the Chegg QA Board and strengthening their concepts of computer science.
  - Impact:** Answered a total no of 200+ questions on the chegg platform.

## PROJECTS

- COVID Dashboard in association with the Cyberabad Police:** Webapp built for Cyberabad police to curate a list of verified resources for each of the service starting from ambulance services to vaccination centers to food services. My role in the project is to build Robust and Efficient REST API'S,handle Datalayer with MongooseORM and MongoDB Atlas and Cloud Deployment to AWS. Tech: NodeJS,ExpressJs,MongoDB Atlas, AWS . (Link : <https://covid.scsc.in/>)
- Digital Literacy for Secure Youth (DiLSeY):** Application built for SCSC to train youngsters of the city to protect themselves from cyber crimes via the methods of training and assessment. faster. Tech: NodeJS,ExpressJs,MongoDB Atlas, AWS. (Link : <https://play.google.com/store/apps/details?id=com.scsc.dilsey>)
- RNNLanguageTranslator:** We implemented RNN Encoder and Decoder using LSTM and Translated English sentences into valid translated Hindi sentences (Link: [codebase](https://codebase))
- KPdb:** I have implemented my own light weight Database Engine which supports CREATE,INSERT, SELECT and DROP commands and working on more commands such as JOINS now. (Link: [codebase](https://codebase))
- Uvoicer(Work in progress):** Uvoicer is an open-source digital voice assistant application.It is like the "Grammarly" for voice.It will feed your voice and will return you back with the corrected text grammatically in your own voice. (Link: [codebase](https://codebase))
- Myers-Briggs Personality Prediction from tweets using BERT model:** This tool predicts your personality out of the 16 Myers-Briggs Type Personalities by your Tweets and compares your personality types with the people that you follow It utilizes machine learning classifier Kth Nearest Neighbour and NLP using the state of the art language model - BERT (Bidirectional Encoder Representations from Transformers) to predict the personality type of the given user based on their recent tweets.

- **Implementenation of Robust hand gesture recognition using multiple shape oriented visual cues(Work in Progress) (Flagship project for my undergrad):** This project is the real-time implementation of a research paper with same title on springer.In this project, we are building an innovative framework for real-time hand gesture based on optimized shape representation build from multiple shape cues. This framework solves the difficulty caused by self-occlusion among hand-fingers.

## HONORS AND AWARDS

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- AIR 1103 (Team Piedpiper) on Google HashCode'2021 out of 36000 participants.
- Runner-up at CMRCET IDEATHON-2020,The Annual Hackathon of CMR College of Engineering Technology.
- Highest SGPA in 3rd and 4th Semester of My Btech course (3rd sem:9.43/10 , 4th sem :9.85/10)

## CERTIFICATIONS

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- Algorithmic Toolbox certification offered by UC SanDiego on coursera
- Machine Learning for Computer vision certification offered by EICT Academy IIT Roorkee
- Full Stack Developer certification in MERN by LearnCodeOnline.in