

# Prajwal G Alewoor

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## Personal Profile

A self-motivated 4<sup>th</sup> year student with interest in the core concepts involved in Computer Science, would love to share a platform where I can show my skills and abilities for the development of the organization and personally evolve by constant learning.

[View Portfolio](#)

## Education

Course	Institution	Year	CGPA / Percentage
Information Science Engineering	BMS College of Engineering, Bengaluru	2020-till date	9.22
Pre-University Course	Vidyaniketan PU Science College, Hubli	2018-2020	93%
Secondary Education	Chinmaya English Primary School, Hubli	2018	91.4%

## Work Experience

### Havells Centre for Research and Innovation (Bangalore)

Jan 2024- Present

**Role:** Data Scientist Intern

**Energy Auditor:** Hands on experience on Machine Learning and Deep Learning algorithms to disaggregate total energy consumption by predicting power consumption of individual appliance, without the need for installing sensors on each device

**Energy Forecasting:** Developed and implemented a bi-LSTM model for time series energy forecasting, with 1 hr frequency resolution in predicting future energy consumption. Applied Exponential Moving Average for data preprocessing to smooth time series data and enhance trend detection. Utilized Python, TensorFlow to build the model.

**Other Tasks Performed:** Validation of daily data and integrated alert mails to notify missing data, invalid values and device status. Wrote Data cleaning code to fill missing values and to remove outliers, Data visualization of power vs time for each device by fetching the data from ADLS

## University Projects

- Dynamic Website for Online Voting System

Frontend: HTML, CSS, JavaScript

Backend: PHP, MySQL

This website provides an online interface where a person can cast vote from his comfort place. Used HTML, CSS for styling. JS for form validation. PHP is used in backend to establish Database Connection. SQL queries are used to perform CRUD operation.

- Comment Toxicity using Deep Learning

This model helps us in detecting the different degree of comment toxicity and can be used to block out the spread of hate speech. Methodology used in this project are Dataset Collection, Pre-processing of data , Modelling, Prediction and Performance Measure. LSTM cell is used as DL model which uses sequence of data as input.

- Chit-Chat Web App using ReactJS with Firebase

This objective of this website was to build custom social media app where users can interact with friends by just searching their username. Used HTML, CSS with ReactJs for frontend designing. Firebase is used for backend for this project as it stores real-time database with high security.

Skills developed : Binding website using various hooks and components , storing and fetching User Info and messages from Firebase.

## Research Paper ([Link](#))

Led a research project focused on accurate chronic kidney disease (CKD) prediction utilizing classification techniques, showcasing proficiency in Decision Tree, Naive Bayes, and Logistic Regression models. Successfully applied sampling methods (oversampling, SMOTE, under sampling) to mitigate class imbalance and enhance predictive accuracy.

## Skills

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<b>Programming</b>	C, C++, Java, Python, HTML + CSS, JavaScript, ReactJS, SQL.
<b>Technical</b>	OS, DBMS, Web Development, OOP, Machine & Deep Learning, Computer Networks, Software Testing.
<b>Soft Skills</b>	Time Management, Teamwork, Problem-solving, Good Observation, adaptability and listening skills.

## Certifications [\(Link\)](#)

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- 2021 **Elite** (In Top 5%) Certificate from IIT Kharagpur for concluding **NPTEL** Exam on Cloud Computing.
- 2023 **IBM** – Successfully completed course on Python for Data Science.
- 2023 **HackerRank** - Successfully cleared the assessment for Java(Basic) skill.
- 2024 **Coursera** - 5 Courses on Deep Learning Specialization by Andrew Ng

## Achievements

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- 2021 Winner, Math Mania held during Phase Shift event at BMSCE.
- 2022 Ranked among top 10 in 24 hour Code-A-Thon on Hacker Rank conducted by Phase Shift.
- 2022 Outstanding performance on the “Pitch Day” of Startup Launchpad Cohort-2 organized by CIIE.