

# Aditya Suhane

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## Technical Skills

**Programming Languages:** Proficient in Python and C++, with experience in Dart for mobile application development.

**Web Development:** Skilled in HTML, CSS, and JavaScript for creating responsive and dynamic web applications.

**Machine Learning:** Experienced with TensorFlow, Keras, NumPy, Pandas, Matplotlib, Seaborn, and Scikit-learn for developing and deploying machine learning models, including Convolutional Neural Networks (CNNs) and various other algorithms.

**Frameworks:** Knowledgeable in Django and Flask for web development and Flutter for cross-platform mobile application development.

**Backend Technologies:** Proficient in using Firebase for backend development, data storage, and real-time data synchronization.

**Platforms and Tools:** Experienced with AWS, GCP, Kubernetes, Netlify, Vercel, GitHub Pages, GitHub Actions, Docker, Visual Studio Code, and Unix/Linux/Windows operating systems.

**Databases:** Skilled in MongoDB, MySQL, PostgreSQL, and NoSQL databases.

### Data Structures and Algorithms

Strong understanding of data structures and algorithms, crucial for efficient problem-solving and software development.

## Education

**Gyan Ganga Institute of Science and Technology**  
Bachelor of Technology (B.Tech), *Current CGPA: 7.75*

**Computer Science and Data Science**  
*Expected Graduation: 2026*

## Experience

### CodersCave

Data Science Intern

*September 2023 – October 2023*

- **Data Visualization:** Conducted extensive data visualization tasks to aid in the interpretation of complex datasets.
- **Data Analysis:** Performed detailed data analysis to extract actionable insights from raw data.
- **Natural Language Processing (NLP):** Implemented NLP techniques for text processing and analysis.
- **Model Building:** Built and fine-tuned machine learning models to address various data-driven tasks.

## Projects

ETVAK - Malaria Detection App (Flutter)

- **Project Lead:** Spearheaded the development of ETVAK, an innovative mobile application for detecting malaria.
- **Machine Learning Implementation:** Utilized TensorFlow and Keras to implement machine learning models for accurate disease identification.
- **Advanced Detection Techniques:** Deployed neural networks and Convolutional Neural Networks (CNNs) to enhance detection capabilities.
- **Mobile Interface Design:** Designed and developed the mobile interface using Flutter and Dart, ensuring a seamless cross-platform user experience.
- **Backend Development:** Integrated Firebase for efficient data storage and retrieval, contributing to a robust and reliable backend system.
- **Doctor Appointments and Medicine Orders:** Built functionalities to book doctor appointments and order medicines through the app.
- **Chat Bot Integration:** Integrated a chat bot using NLP to assist users with inquiries and provide support.

Old Car Price Prediction Model

- **Objective:** Developed a predictive model to estimate the prices of old cars based on various features such as mileage, age, brand, and condition.
- **Data Preparation:** Cleaned and preprocessed the dataset, handling missing values and normalizing data to ensure accuracy.
- **Tensor Conversion:** Converted the preprocessed data into tensors for compatibility with TensorFlow.
- **Model Architecture:** Utilized dense layers with TensorFlow, leveraging the Adam optimizer, and evaluated the model using Mean Squared Error (MSE) and Root Mean Square Error (RMSE).
- **Model Training and Evaluation:** Trained the model on historical car price data and validated its performance using appropriate metrics.
- **Outcome:** Achieved a robust model capable of providing accurate price predictions, aiding in the valuation of used cars for buyers and sellers.

#### CPU and Memory Usage Prediction Based on Network Traffic and Energy Consumption

- **Objective:** Developed a predictive model to forecast CPU and memory usage based on network traffic and energy consumption data.
- **Data Preparation:** Preprocessed a comprehensive dataset containing textual data such as task type, task priority, and task status, converting these into categorical variables for analysis.
- **Data Cleaning and Transformation:** Ensured data quality by addressing missing values, normalizing data, and transforming text data into structured formats appropriate for machine learning tasks.
- **Algorithm Selection:** Employed the K-Nearest Neighbors (KNN) algorithm for its efficiency and accuracy in classification tasks.
- **Model Training and Evaluation:** Trained the model using historical data and evaluated its performance using metrics such as accuracy, precision, and recall to ensure robustness.
- **Implementation:** Developed a scalable and efficient solution capable of real-time prediction of CPU and memory usage, aiding in optimal resource management.
- **Outcome:** Successfully demonstrated the model's ability to predict system resource usage, facilitating proactive system maintenance and resource allocation.

## Achievements

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**TCS CodeVita Round 1:** Successfully cleared the TCS CodeVita Round 1

**Rank:** Secured a rank of 4657 out of 136,064 participants, advancing to the next level.

Ranked among the top 6,093 participants in the next level, demonstrating strong coding skills and problem-solving abilities.

**CodeChef Rating:** Achieved a rating of 1059, showcasing continuous dedication to problem-solving and coding abilities.

**Google Data Analysis Program:** Successfully completed all 8 courses of the Google Data Analysis program under the "Grow with Google" initiative.

**GDSC United Nations Chapter:** Ranked in the GDSC United Nations Chapter events.

**Smart India Hackathon (SIH):** Ranked among the top 40 teams at the college level in the Smart India Hackathon.

**Eureka IIT Bombay:** Ranked among the top 20 teams at the college level in Eureka, IIT Bombay.

**Top 10 Data Engineering Hackathon (Informatica):** Achieved a top 10 position in the Data Engineering Hackathon organized by Informatica.

**MLH Hackathons:** Participated in over 20 MLH hackathons demonstrating consistent innovation and problem-solving abilities.

## Soft Skills

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**Communication:** Strong verbal and written communication skills, demonstrated through project documentation and presentations.

**Problem Solving:** Proven ability to solve complex problems, reflected in successful coding challenges and projects.

**Teamwork:** Collaborative team player, effectively contributing to group projects and fostering a positive team environment.

**Adaptability:** Quick learner with the ability to adapt to new technologies and frameworks.