



# SHYAM KUMAR S

 Data Science Enthusiast

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## Projects

### Optimized Deep Learning for Air Quality Forecasting:

- Researched deep learning (LSTM, GRU) & classical models (Prophet, ARIMA) for air quality forecasting.  
Integrated bio-inspired optimization algorithms (ABC, BA, BFOA, GWO) to enhance performance, evaluating using MSE, MAE, RMSE.

### Process Control System:

- Engineered a cutting-edge 'Process Control System' using PHP and Python at HAL, resulting in a 40% reduction in production downtime.
- Achieved 100% adoption and usage at HAL, transforming industrial processes and enhancing operational efficiency.

### Serverless Web Hosting In AWS:

- Developed 'Serverless Web Hosting and High Availability Instance for down time ' using AWS ,Linux and Lamda.

### IPL Prediction Developer:

- Developed IPL win and score prediction applications using Python, JavaScript, HTML, CSS, and the Streamlit framework.

### Smart Chat Application

- A server client chat application developed using java with sentiment analysis

## Education

Masters of Science In Data Science

Duration: present

**Christ (Deemed University To Be University)**

Bachelor of computer Application

[with Analytics]

Duration: 2020-2023

**Kristu Jayanthi College (Autonomous)**

**CGPA [8.3/10]**

Pre-University College PUC

[PCMC]

Duration:2018-2020

**New Baldwin International College**

**PERCENTAGE-75%**

## Technical Skills

- **Programming Languages:** Python, Java, R-Programming
- **Databases:** MongoDB, SQL
- **Web Technologies:** HTML, CSS, JavaScript
- **Data Visualization:** Power BI, Tableau
- **Cloud:** AWS
- **Machine Learning Algorithm**
- **UI/UX Design:** Figma

## Certifications

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- Cybersecurity Essentials - **CISCO Network Academy**
- AWS Solution Architecture - **Trishana Technologies**
- QlikSense Business Analyst Qualification - **Qlik**
- Advanced Google Analytics - **Google**
- Probability and Statistics using Python - **Indian Statistical Institute.**

## PROJECT INTERNSHIP

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**Internship:** Hindustan Aeronautics Limited

**Duration:** Jan 2023 - Feb 2023

**Description:** Completed a 4-week internship at Hindustan Aeronautics Limited, focusing on the Foundry and Forge Division in Bengaluru.

**Project:** Engineered a cutting-edge 'Process Control System' using PHP and Python at HAL, resulting in a 40% reduction in production downtime.  
Implemented data analytics tools to analyze historical sales data and predict future inventory needs accurately, leading to a 15% reduction in stockouts and a 20% increase in on-time deliveries.  
Created dashboards to visualize the various elements of the manufacturing operations.