

# Sri Roopa Ramesh Babu

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## SUMMARY

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A zealous and inspired student looking forward to pursuing a Master's in the Data Science discipline. A current Computer Science and Engineering undergraduate passionate about data science and machine learning with an avid desire to work on applied research projects, gain exposure to various advancements and real-world applications of the domains, and contribute significantly to this realm.

## EDUCATION

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**St.Joseph's College of Engineering**  
B.E Computer Science and Engineering

August 2019–Current  
9.54/10 (until semester 6)

## EXPERIENCE - INTERNSHIPS

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**Graduate Rotational Internship Program-Data Science**

September 2021 – October 2021

*The Sparks Foundation*

Online

- Visualised a dataset containing student study hours to study relationships.
- Predicted the result with a r2 score of 0.9454

**AI-ML Developer Intern**

August 2021 – September 2021

*AiViRex Innovations*

Online

- Developed a full stack Content-Based Hashtag Generator for Instagram using CNN.
- Created a Tech-Stack Recommendation Chatbot using Google DialogFlow.

**Data Analyst Intern-Marketing**

June 2021 – July 2021

*Catalyst Consultancy*

Chennai

- Mined market research data of competitors to study trends and developed informative visualizations.
- Performed SWOT analysis for the client and provided an effective marketing strategy.

## PROJECTS

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**Estimation of Crop Yield** | *Python, IBM DB2, IBM Cognos Analytics, JIRA*

September 2022 – November 2022

- Cleaned the Indian Crop Production data set.
- Created various visualizations to find the most influencing factors.

**Music Recommendation System** | *Python, Sklearn*

August 2022 – October 2022

- Performed Clustering on Spotify User Data.
- Constructed a Collaborative recommender system using clustering and matrix factoring approaches.

**Indian Stock Market Index Analysis** | *Python, Sklearn*

July 2022 – September 2022

- Analysing the stock trends of the NIFTY-50 Companies.
- Created a time series forecasting model based on multiple features like Yield percentage, P/B, P/E etc.

**Abstractive Text Summarizer** | *PEGASUS Transformer, PyTorch*

April 2022– May 2022

- Studied various methods to summarize texts and compare their efficacy.
- Passed the tokens to the PEGASUS model to generate contextually sensible abstracts.

## ACHIEVEMENTS

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**Shortlisted as one among the Top Five contestants in L&T TECHgrium'22**

October 2022– Current

- Designed an approach for Converting 2D object into 3D with minimal image inputs
- Designed the approach by leveraging feature processing modules and Transformers.

**Shortlisted as one among the Top Five contestants in MANTHAN'21**

September 2021– October 2021

- Conceptualized a real-time feed level Online Deepfake Detection.
- Devised a web extension to identify any deepfakes on the video or image displayed at any instance.

**Runner Up in the INAE 4th Youth Conclave**

August 2021– October 2021

- Ideated a Cough Based COVID-19 Detection System.
- Suggested an ANN leveraging scalable web application as a pre-confirmatory COVID test.

## RESEARCH EXPERIENCE

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Assisted Prof.Dr.Sheryl Oliver in her project **Cyclone Intensity Estimation using Image Processing**

## TECHNICAL SKILLS

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**Languages:** *Python, MySQL, C, C++,R,HTML,CSS,JavaScript,Java*

**Frameworks:** *Tensorflow, PyTorch, Flask, Django, Tkinter, Streamlit, Gradio, Selenium*

**Libraries:** *NumPy, Pandas, Matplotlib, Seaborn, SciPy,scikit-learn, Keras, Open CV, Beautiful Soup, Scrapy*

## TEACHING EXPERIENCE: INTER-COLLEGE

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**Fundamentals of Cloud Computing and Devops** 24 hours

*Cloud Services, Service Providers, S/W development models, Jenkins, Docker*

**Hands-On Machine Learning** 30 hours

*Regression, Classification, and Clustering algorithms, Boosting algorithms, Hyper-parameter Tuning*

**Exploratory Data Analysis** 8 hours

*Data preprocessing, Matplotlib, Seaborn, Power BI,Tableau*

## CERTIFICATIONS

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**Data Analysis and Statistics: A practical course** October 2022

*Udemy*

**Deep Learning A-Z: Hands-on ANN** February 2022

*Udemy*

**Data Analysis and Visualization in Excel and Power BI** February 2020 – March 2020

*National Institute of Information Technology*

*Remark: Fair*

**Python programming and Data Exploration in Python** November 2019 – January 2020

*National Institute of Information Technology*

*Remark: Excellent*

**Object Oriented Programming using C++** August 2019 – October 2019

*National Institute of Information Technology*

*4 credits*

**Programming in C** June 2019 – July 2019

*National Institute of Information Technology*

*3 credits*

## PROFESSIONAL MEMBERSHIPS

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**IEEE Computer Society Student Chapter** (2021 – current)

**Computer Society of India** (2020 – current)

**Student Member of INAE Youth Conclave** (2021 – current)

## EXTRA-CURRICULAR ACTIVITIES

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**CRYPTRIX-2022** November 2022

*Hosted a National level Technical Symposium representing the department of CSE*

**Shark Tech** May 2022

*Organizer in the ideation and pitching event initiated by the IEEE CS student Chapter*

**Seminars**

*Topics: Data Preprocessing, Evaluation Metrics, Ad recommendations, and Customer Churn Prediction*