

# Navya Kola

Samalkot, Andhra Pradesh | +91 8331046933 | email-id : [kolanavya478@gmail.com](mailto:kolanavya478@gmail.com)  
<https://www.linkedin.com/in/kolanavya/> | <https://navyakola2020.blogspot.com/>

## EDUCATION

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### RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES

Bachelor of Technology (B. Tech)

Computer Science Engineering, Cumulative GPA: 9.42/10.0

Ongole, AP

July 2020 - May 2024

### RAJIV GANDHI UNIVERSITY OF KNOWLEDGE TECHNOLOGIES

Pre-University Course (PUC), MPC, Cumulative GPA: 9.32/10.0

Ongole, AP

June 2018 - June 2020

### ZILLA PARISHAD HIGH SCHOOL VETLAPALEM

High School, MPC, Cumulative GPA: 10.0/10.0

Vetlapalem, AP

June 2017 - April 2018

## EXPERIENCE

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### RESEARCH AND DEVELOPMENT INTERN

Sep 2023 - Mar 2024

- **CDAC , Bangalore**
- Contributed to the development of IoT-based smart products and solutions as a part of the DRDO product development team. The project focuses on analyzing logs generated by Internet of Things (IoT) devices using Security Information and Event Management (SIEM) systems.

**Technologies Used:** SIEM, ELK.

## PROJECTS

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### ADVANCED PDF READER AND CONVERTER

- Developed interactive and user-friendly graphical user interfaces (GUIs) using Tkinter, a Python library building cross-platform desktop applications.
- Leveraged the pymupdf library to perform advanced document processing tasks, such as PDF manipulation, extraction, and conversion, in Python applications. Utilized the pyttsx3 library for text to speech synthesis in Python applications, enabling the conversion of textual content into audible speech.

#### Technologies Used:

- **Python:** Core programming language for the application.
- **Tkinter:** For creating a cross-platform graphical user interface.
- **PyMuPDF:** For advanced PDF manipulation, extraction, and conversion tasks.
- **pyttsx3:** For converting text content into audible speech, adding an accessibility feature to the application.

### AUTOMATIC MONGODB BACKUP USING AWS

- An S3 bucket is created in AWS to store the backup files. This involves configuring access permissions and storage settings to ensure secure and efficient data handling.
- Developed a custom backup script in Bash scripting language to automate the backup process for MongoDB databases hosted on the EC2 instance.
- The script is set up to run at regular intervals using cron jobs (Linux task scheduler)
- For cron jobs, a crontab entry is created to schedule the script execution.

#### Technologies Used:

- **AWS:** For S3 bucket storage and possibly for Lambda functions if serverless automation is used.
- **MongoDB:** The database system being backed up.

## **IOT LOG ANALYSIS USING MACHINE LEARNING AND SIEM**

- The project focuses on analyzing logs generated by Internet of Things (IoT) devices using Information and Event Management (SIEM) systems.
- The goal is to enhance security, detect anomalies, and provide insights into the operational status of IoT devices.
- Techniques and algorithms applied to analyze log data, identify patterns, detect anomalies, and predict future events.
- Logs are sent to a SIEM system, where they are ingested, indexed, and correlated with other security events.
- The SIEM system provides dashboards and alerts for monitoring log data.

### **Technologies Used:**

- SIEM
- ELK

## **SKILLS**

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**Programming Languages:** Python

**DataBase :** MySQL

**Tools:** ELK,SIEM

**Operating Systems:** Windows, Linux

**Cloud Computing:** AWS

**Languages:** Fluent in Telugu, Working Proficiency in English.

**Others:** Presentation Skills ,Team Player ,Communication Skills , Analytical Skills,Problem Solving

**Hobbies:** Story Telling ,Teaching , Listening to Music ,Blogging, Playing Nanogram

## **CERTIFICATIONS**

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### **CERTIFIED AWS CLOUD QUEST-CLOUD PRACTITIONER**

- Developed a keen grasp of the essential concepts and functionalities of AWS, a leading cloud computing platform.

## **EXTRACURRICULAR ACTIVITIES**

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### **MEEBUDDY JOINT SECRETARY**

- Meebuddy is a provider of short and summarized news around the globe. Detailed information of the happenings around your locality to the place you can't reach will be delivered to the electronic gadget in your hand I used to make Phone Interviews of alumni students of our University and Present them as a Magazine.

### **SEMINAR CLUB MEMBER**

- Associated with APIIT, Rajiv Ghandhi University of Knowledge Technologies ,Govt of Andhra Pradesh As a co-founder of the seminar club, my role involves strategic planning, organizing events, fostering collaboration, and driving growth, with a focus on creating valuable learning opportunities for participants.

### **MOONSHOT JUNIOR'S ENTREPRENEURSHIP AND LEADERSHIP DEVELOPMENT PROGRAM**

- Gain knowledge about key business issues, the skill to apply that knowledge, and the confidence to take action informed by past experiences.

## **REFERENCE**

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**Dr.Sanjay Adiwal**

Joint Director

CDAC

Bangalore