

# Akash Koppolu

Bachelor of Technology

Electrical and Electronics Engineering

N.B.K.R. Institute of Science and Technology, Nellore

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## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., EEE	N.B.K.R. Institute of Science and Technology	69.00%	2021 - 2025
Senior Secondary	Srinivasa Junior College, AP(BIE)	71.50%	2021
Secondary	T.M.R High School, AP(SSC)	9.20/10 CGPA	2019

## EXPERIENCE

### • Data Analytics Course

*Trainee - GoOnline Trainings Pvt Ltd*

Online

June 2025 - October 2025

- Collected, cleaned, and analyzed large datasets using SQL Server, applying JOINs, subqueries, CTEs, and aggregate functions to extract meaningful business insights
- Designed and developed interactive dashboards in Power BI to visualize key metrics such as sales trends, customer performance, and regional growth
- Created data models and established relationships between tables in Power BI for efficient reporting
- Implemented DAX measures for KPIs like Year-to-Date (YTD) Sales, Monthly Growth %, and Top N Products
- Optimized SQL queries for faster data retrieval and improved Power BI report performance
- Used Power Query to transform and clean raw data before loading into data models
- Built reports and visualizations that supported decision-making for sample business scenarios (e.g., sales performance, customer segmentation)
- Applied row-level security (RLS) in Power BI to restrict access to sensitive data based on user roles
- Performed ETL (Extract, Transform, Load) tasks using SQL and Power BI to automate data refresh workflows

### • Web Development Internship

February 2024 - March 2024

Virtual

*Intern - VaultOfCodes*

- Gained intermediate proficiency in HTML and CSS for front-end development
- Designed and implemented responsive web pages with focus on user experience
- Developed a solid foundation in creating visually appealing websites
- Worked on multiple web page designs enhancing practical web development skills

## PROJECTS

### • Robust Control of Winding-Based DC-Bus Capacitor Discharge for PMSM in Electric Vehicles

2024

*Tools: MATLAB, Simulink, Control Systems, Power Electronics*

- Developed a safe and efficient discharge mechanism for the DC-bus capacitor using motor windings to prevent voltage spikes
- Implemented advanced control algorithms to regulate the discharge process ensuring stability and preventing excessive current flow
- Enhanced system reliability and extended the lifespan of power electronics components in electric vehicles
- Addressed key challenges including managing current surges, maintaining system safety, and optimizing performance under various operating conditions
- Achieved a robust and reliable discharge strategy that improved overall efficiency and safety of electric vehicle power systems

### • Peltier Module Mini Refrigerator (CSP Project)

2023

*Tools: Peltier Module, Thermodynamics, Circuit Design*

- Led team formation and coordinated tasks for designing and building a functional Peltier Module Mini Refrigerator
- Applied principles of thermodynamics and heat transfer to optimize cooling efficiency
- Successfully completed the project demonstrating practical engineering skills and effective teamwork
- Enhanced understanding of thermoelectric cooling systems and their applications

## **SKILLS**

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- **Programming Languages:** Python, SQL, T-SQL
- **Data Analytics Tools:** Power BI, SQL Server, Power Query, DAX
- **Database Management:** Data Warehousing, ETL Processes, Data Modeling
- **Web Technologies:** HTML, CSS
- **Python Libraries:** NumPy, Pandas
- **Engineering Tools:** MATLAB, Simulink

## **CERTIFICATIONS & TRAINING**

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- **Data Analytics with SQL & Power BI**, GoOnline Trainings Pvt Ltd *June - October 2025*
- **Python Programming (Basic to Advanced)**, Python Life (Virtual) *May - July 2023*
- **Python Workshop**, College Workshop (2-day intensive) *2023*

## **EXTRA CURRICULAR ACTIVITIES**

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- Completed CSP project on Peltier Module Mini Refrigerator, leading team coordination and project execution
- Attended 2-day Python workshop covering fundamental topics with hands-on coding sessions
- Active in sports (Cricket) and personal development through reading