

Akash Koppolu

Bachelor of Technology
Electrical and Electronics Engineering
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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** June 2025 - October 2025
Trainee - GoOnline Trainings Pvt Ltd Online
 - 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
Intern - VaultOfCodes Virtual
 - 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

- **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 | <i>June - October 2025</i> |
| • Python Programming (Basic to Advanced) , Python Life (Virtual) | <i>May - July 2023</i> |
| • Python Workshop , College Workshop (2-day intensive) | <i>2023</i> |

EXTRA CURRICULAR ACTIVITIES

- 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