

Bommu Rahul Krishna

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SUMMARY

Electronics and Communication Engineering undergraduate specializing in Data Analytics, Embedded Systems, and IoT. Experienced in designing end-to-end data pipelines, performing advanced analysis, and building automation solutions using Python, SQL, Power BI, and PostgreSQL. Recognized as a “Top Coder” for exceptional problem-solving and algorithmic skills. Adept at transforming raw data into actionable insights that improve efficiency and drive measurable outcomes.

EDUCATION

Vellore Institute of Technology, Chennai, India

B.Tech in Electronics and Communication Engineering

Sep 2022 – July 2026

7.93 CGPA (June 2025)

EXPERIENCE

Student Intern | [Link](#)

June 2024 – July 2024

Bharat Sanchar Nigam Limited (BSNL)

- Gained practical exposure to GSM, 4G/5G, broadband, optical fiber communication, and NGN technologies.
- Conducted network optimization and VSWR measurements to improve telecom signal efficiency and reduce transmission losses.

Project Intern | [Link](#)

June 2024 – July 2024

Maven Silicon

- Evaluated ESP8266-based embedded systems for home automation project for performance and reliability , ensuring 95% hardware efficiency.
- Designed ESP32-based embedded IoT home automation system with Blynk integration for remote control.

PROJECTS

Walmart Business Data Analysis (E2E Pipeline) | *Python, SQL, PostgreSQL* | [Source](#) May 2025 – July 2025

- Built Python-SQL pipeline for Walmart sales data, ensuring 100% schema accuracy and smooth transformations.
- Integrated cleaned, feature-engineered datasets into MySQL and PostgreSQL for efficient storage and retrieval.
- Analyzed revenue trends, product performance, and customer behavior, reducing insight turnaround time by 40%.

Manhole Detection System | *Arduino, GSM, GPS* | [Source](#)

Feb 2025 – Apr 2025

- Achieved 90% detection accuracy for hazardous manhole conditions.
- Reduced manual inspections by 60% using real-time alerts.

US Sales Data Analysis (Regional Sales Analysis) | *Python, SQL Power BI* | [Source](#) Jun 2025 – Aug 2025

- Built ETL pipeline for 5-year US sales data, engineered KPIs, stored aggregates in PostgreSQL.
- Conducted EDA including seasonal trends, SKU Pareto analysis, and customer segmentation for high-value cohort targeting.
- Created Power BI dashboard with geographic mapping, KPI cards, and anomaly detection for sales strategy.

ACHIEVEMENTS

- Secured “Top Coder” recognition, placing in the top 5% of 8,000+ participants in VIT’s multi-phase competitive programming challenge, demonstrating exceptional problem-solving and algorithmic expertise | [Source](#)

TECHNICAL SKILLS

Programming & Tools: Python, Java, SQL, Git, Jupyter, VS Code, Google Colab

Libraries & Platforms: Pandas, NumPy, Matplotlib, Seaborn, Power BI, Tableau, Excel, AWS ,Oracle

Databases & Other Skills: MySQL, PostgreSQL, API Integration, ETL, Data Analysis, Troubleshooting, Documentation

CERTIFICATIONS | [LINK](#)

- Deloitte Australia - Data Analytics Job Simulation | [Certificate](#)
- AWS Cloud Practitioner Essentials | [Certificate](#)
- Oracle Cloud Infrastructure 2025 Certified DevOps Professional | [Certificate](#)
- Oracle Analytics Cloud 2025 Certified Professional | [Certificate](#)