

ENDLA VIVEK

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🔗 SUMMARY

Detail-oriented and analytical engineering graduate with strong proficiency in Python, data analysis, and investigative thinking. Proven experience in handling large datasets, applying problem-solving techniques, and managing team operations. Demonstrated ability to work independently and communicate clearly across technical and non-technical teams. Eager to contribute to risk mitigation and customer trust-building efforts in a dynamic, high-performance environment.

🎓 EDUCATION

**National Institute of Technology, Andhra Pradesh**  
*B.Tech – Electrical and Electronics Engineering | 2020 – 2024*

**Pratibha Junior College, Nalgonda**  
*Intermediate | 2018 – 2020 | Score: 94.6%*

**Gowtham Model School, Hyderabad**  
*High School | 2017 – 2018 | CGPA: 9.5*

🛠 TECHNICAL SKILLS

- **Programming Languages:** Python, SQL
- **Tools & Platforms:** Git, GitHub, Microsoft Excel, Word, PowerPoint
- **Communication:** Written and verbal communication, stakeholder coordination

☐ SOFT SKILLS

- Strong Analytical Thinking
- Attention to Detail
- Independent Problem Solving
- Verbal & Written Communication
- Time Management
- Team Collaboration

🔗 PROJECTS

✔ Scenario Generation and Reduction Based Uncertainty Mitigation in a Microgrid

- IEEE SEFET 2024 Publication*
- Researched wind and PV energy datasets using **Monte Carlo simulations**.
  - Applied **dimensionality reduction techniques** (K-Means, PCA, DBSCAN, Autoencoders) to enhance data efficiency.
  - Analyzed and interpreted high-volume datasets to improve forecasting accuracy—relevant to fraud/risk analysis.

✔ Medical Ventilator Prototype

- Designed a low-cost ventilator using **DC motor control** for airflow regulation.
- Applied problem-solving in critical environments with emphasis on safety, reliability, and real-time response.

👥 LEADERSHIP & EXTRACURRICULARS

- **Security Team Head** – Managed a 10-15 member team for campus events, ensuring event safety and hospitality.
- **AI & Robotics Club** – Active contributor in discussions and workshops related to machine learning and intelligent systems.

📖 PUBLICATIONS

- "Scenario Generation and Reduction Based Uncertainty Mitigation in a Microgrid" – IEEE SEFET 2024