ADITYA KULKARNI

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EDUCATION

PES University — **Bengaluru, Karnataka**
B. Tech in Electronics & Communication — *Expected Graduation, September 2027*

- Concentration: Analog Circuit Design, Cadence Virtuoso Software
- Current SGPA: 7.21/10.00
- Relevant Coursework: Statistics & Probability, Linear Algebra, Signals & Systems, Digital Circuit Design, Image Processing, Digital Signal Processing, Control Systems

EXPERIENCE

Rotaract District 3191 — **Bengaluru, Karnataka**
Director of Community Services — *October 2024 - Present*

- As the Director of Community Services at Rotaract PESU - ECC Bangalore, my primary responsibility is to lead and organize impactful community-driven initiatives.
- I work closely with the team to identify areas of need in our community, such as education, health, and environmental sustainability, and coordinate projects that address these concerns.

AIESEC — **Bengaluru, Karnataka**
Senior Manager, AIESEC in Bengaluru — *June 2024 – February 2025*

- I significantly enhanced my skills in cold calling and cold emailing. This improvement enabled me to organize numerous client meetings with prominent NGOs successfully.

Junior Manager, AIESEC in Bengaluru — *February 2024 – June 2024*

- As a Junior Manager at AIESEC, I developed expertise in cold calling, cold emailing, and market research.
- Within a few months, I successfully contacted several NGOs in Bengaluru and facilitated their partnerships with AIESEC to collaboratively work towards achieving the UN's 17 Sustainable Development Goals (SDGs).

Under25 Universe — **Bengaluru, Karnataka**
Snapchat Opinion Leader — *June 2023 – January 2024*

- Over the period of 9 months, I had the opportunity to create various Snapchat lenses for Under25.
- During this time, I was able to experiment with different design elements, animations, and interactive features to captivate and engage the young and dynamic audience.
- Working closely with the Under25 team, I tailored each lens to reflect the brand's vibrant energy and creative spirit.

PROJECTS

Food Delivery Time Prediction Model

- Developed a machine learning system to predict food delivery times using features like location, weather, traffic, and delivery personnel experience.
- Achieved strong performance with a Linear Regression model (R^2: 0.80–0.90, RMSE: 5–8 mins) and a Logistic Regression classifier (Accuracy: 75–85%) to label deliveries as "Fast" or "Delayed."
- Identified key factors influencing delivery delays, such as traffic-distance interaction, rush hour, and adverse weather & provided actionable insights like dynamic routing, peak-hour staffing, and weather-based delivery time adjustments to improve operational efficiency and customer satisfaction.

Band Gap Reference Circuit:

- Designed a Band-Gap Reference (BGR) circuit in Cadence to generate a temperature-independent stable voltage source.
- The circuit combines PTAT (Proportional to Absolute Temperature) and CTAT (Complementary to Absolute Temperature) components to cancel out temperature effects. Current mirrors were used to maintain consistent current across branches.
- The output voltage remains stable between 1.29V and 1.33V across a wide temperature range from -50°C to 125°C.

SKILLS & INTERESTS

Languages: System Verilog, C, C++, Python, HTML/CSS, JavaScript, MATLAB
Tools: Simulink, QUCS Software, Xilinx Vivado, Cadence Virtuoso, MATLAB, LTSpice, KiCAD,
Interests: Professional Wildlife Photography, Intermediate Level Violinist