

RAGHAVENDRA RA

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EDUCATION

Bachelor of Technology in Electronics and Communication Engineering

PES University

CGPA: 8.49

11/2022 – Present

Bengaluru, Karnataka

EXPERIENCE

Intern

BHEL-ELECTRONICS DIVISION

06/2025 – 06/2025

Bengaluru, Karnataka

- Tested Auto Synchronizer system to evaluate synchronization capability between power generator and grid.
- Ensured optimal voltage, frequency, and phase angle alignment for reliable power integration.

TECHNICAL SKILLS

— **Programming Languages** – Python, C-Programming | **SQL** – MySQL | **Visualization Tools** –Tableau, Seaborn, Matplotlib | **Developer Tools** – Simulink, CST, Xilinx Vivado, Vitis HLS | **Soft Skills** – Communication Skills, Problem Solving, Multitasking, Team Collaboration, Adaptability, Attention to Detail, | **MS Excel**

PROJECTS

AI-Driven Healthcare Risk Prediction System

07/2025

Python

- Built a healthcare-risk prediction system using Python and Scikit-learn, replicating and extending research on cardiovascular and stroke datasets (Framingham & CVD-Stroke).
- Applied feature-selection methods (ANOVA F-test,Mutual Information) to identify key predictors like age, glucose, and hypertension.
- Trained 10+ ML models (Logistic Regression, Random Forest, SVM etc.) achieving ~85–90 % accuracy, automating evaluation, visualization, and report generation.

ChaCha Hardware Implementation

12/2024

Verilog, SystemVerilog, Cadence digital design suite

- Designed and verified the ChaCha20 encryption algorithm in Verilog for secure, high-speed, and low-power IoT applications.
- Optimized the Quarter-Round module,and added test cases to improve coverage and accuracy.
- Achieved better area, power, and timing efficiency, validated through waveform simulation and synthesis reports.

Stock Market Prediction

07/2024

Python

- Built SVR (RBF) model using Python to predict stock prices.
- Collected and processed 5 years of historical data with EMA14 technical indicator
- Tuned model and evaluated using MSE, R².

ACHIEVEMENTS

- **2-DR CNR RAO SCHOLARSHIP** (Awarded for achieveing a top 20 percentSGPA ranking in the department)
- **4-DAC Scholarship** (Awarded for achieving a 7.75+ percent SGPA)

CERTIFICATIONS

Applied data analytics using python and SQL ☞ | Python for Data Visualization and Analysis ☞ |
From Excel to Power BI ☞

EXTRA CURRICULAR

Clubs: Alcoding Club (Operations), Embrione Club (Operations), Trading Hub (Finance & Market)