

# PAVAN CHANDRA KOTIPATRUNI

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## EDUCATION

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### B.Tech in Electronics and Communication Engineering

Gayatri Vidya Parishad College of Engineering (A), Visakhapatnam, India

**Relevant Coursework:** C language, Digital logic Design, VLSI

2017-2021

GPA: 7.84/10

## ACADEMIC PROJECTS

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### Project-1:

**Content Addressable Memory Design, Visakhapatnam, India**

**Apr 2021-July 2021**

- **Led** a team of four members in the conception and development of a Content Addressable Memory (CAM) utilizing tools such as Xilinx ISE.
- **Implemented** resource-efficient design strategies by partitioning a sizeable RAM block into smaller virtual RAM segments, subsequently transforming them into CAM blocks.
- **Achieved** optimal resource allocation and reduced latency, yielding a significant 78% enhancement in overall efficiency.
- **Orchestrated** the successful creation of a CAM system that swiftly retrieves desired data and furnishes its corresponding address location.

### Project-2:

**Design of Kogge Stone Adder, Visakhapatnam, India**

**Nov 2020-Jan 2021**

- **Devised** and executed a Kogge-Stone Adder (KSA) for a Wallace Tree Multiplier utilizing Verilog hardware description language.
- **Employed** a comprehensive approach involving both front-end and back-end tools such as Xilinx ISE to achieve successful implementation.
- **Attained** notable time complexity reduction by integrating the KSA, resulting in an impressive time delay decrease of 9.4 nanoseconds.
- **Demonstrated** superior performance compared to conventional methods like Ripple Carry Adder and Carry Look-Ahead Adder in terms of efficiency and delay.

## WORK EXPERIENCE

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**Developer, Tata Consultancy Services Hyderabad, India**

**Aug 2021-Present**

### Project-1:

- **Played** an integral role in shaping the Cognitive Delivery Platform (CDP), dedicated to project analysis aligned with consumer criteria.
- **Collaborated** on a versatile platform that evaluates projects using consumer-defined benchmarks, spanning prominent technologies like Java, Python, Angular Js, and Machine Learning.

### **Key Accomplishments:**

- **Spearheaded** UI development to create an interactive CDP dashboard.
- **Innovatively** automated data collection from diverse tools, covering project management, CI/CD development, and deployment specifics.
- **Pioneered** the creation of a dynamic, from-scratch page featuring process flow visualization.

- **Enhanced** comprehension by visually presenting retrieved data on the dashboard.
- **Assumed** the role of Single Point of Contact (SPOC) for 12 new team members, facilitating their smooth integration into the work environment.
- **Contributed** as a dedicated member of the event organizing committee, orchestrating events such as Send-off Parties and engaging Fun Friday activities.
- **Attained** a commendable rating of 4.0 out of 5.0 during the Annual Appraisal process.

**Project-2:** – ICICI Housing Loan Bank Application ("Ilens")

- **Elevated** a cutting-edge and intuitive web application to optimize the loan application procedure for ICICI Bank clientele.
- **Fortified** the application's capabilities, encompassing diverse technologies such as Java and Angular.

**Key Responsibilities:**

- **Spearheaded** the creation of an advanced technical dashboard module within the application, amplifying user experience and furnishing stakeholders with immediate real-time insights.
- **Innovatively** introduced an automated document verification system, cross-validating submitted documents against the customer's property's physical location, ensuring precision and adherence.
- **Effectively** automated application processes leveraging generated reports, mitigating the need for manual intervention and bolstering loan processing efficiency.
- **Sustained** a consistently high rating during consecutive Annual Appraisals.

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**EXTRACURRICULAR ACTIVITIES**

***Creator, Nomad blogs***

***May 2023***

- **Initiated** the creation of a blog titled 'Nomad Blogs,' aimed at assisting novice travelers in navigating their journeys and providing guidance to aspiring trekkers.
- **Orchestrated** the development of a web application dedicated to facilitating 'Nomad Blogs.'
- **Actively** engaged with a wide array of individuals to foster a collaborative environment for the exchange of travel narratives and experiences.

***Volunteered, Lakshya Saarthi, Delhi, India***

***Mar 2022-Present***

- **Provided** strategic direction to the company in crafting a website to appeal to NGOs and clients.
- **Served** as a mentor, overseeing an intern's progress while contributing to the development of a web application for Lakshya Saarthi.

***Promotions Head, WE R 4 HELP Social Service Club, Visakhapatnam, India***

***2018-2021***

- **Conducted** interviews for the club's annual recruitment, assessing 20 students and ultimately selecting 9 candidates.
- **Orchestrated** effective promotional efforts, resulting in a monthly fund collection of INR 25000/-.
- **Skillfully** allocated the funds to cater to the needs of 11 low-income families, including food provision, grocery distribution, and essential medicines.
- **Volunteered** as a Mathematics tutor, delivering impactful tuition sessions to approximately 50 children at a government school every Sunday, resulting in improved academic performance.

***Mentor, Farewell Event, Visakhapatnam, India***

***Mar 2020***

- **Took** organizing and funding responsibilities on behalf of our class for the farewell event and collected funds of **INR 2,83,000** from our class and juniors of our ECE Department
- **Led** a group of **150** people and managed the whole farewell event for our seniors

- **Received** appreciation from seniors and faculty members for organising the event successfully
- **Awarded** with a gift hamper from my seniors as a token of appreciation for my work

***Representative, IIT Madras Fest, Chennai, India***

***Jan 2020***

- **Led** a group of 70 people to plan and organized a trip to Chennai

## **ADDITIONAL SKILLS**

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### **IT SKILLS**

- ***Programming Languages:*** C, Python, Java, UI/UX Design (HTML, CSS, JavaScript/TypeScript)
- ***Technologies:*** Angular (8.0-13.0), Node.js

### **LANGUAGES**

- English | Hindi | Telugu (Native Proficiency)

### **CERTIFICATIONS**

- Python for Beginners (Udemy)
- Robotic Process Automation (Guvi's RPA Skillation)
- Google Project Management: Professional Certificate(Coursera)