

# N. SAKTHI AVINASH

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## CAREER OBJECTIVE

I am an M.Tech integrated student at VIT Chennai, specializing in Computer Science and Business Analytics. With a strong foundation in programming, management, and problem-solving, I am driven to create impactful solutions that merge technology and business for a positive social impact.

## EDUCATION

M.Tech (Integrated) in Computer Science with Specialization in Business Analytics  
Vellore Institute of Technology, Chennai / Expected Graduation: 2027  
CGPA: 8.84

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## SKILLS

- Programming Languages: C, Python, Java, R
- Tools & Technologies: Tableau, OpenCV, Machine Learning, Digital Image Processing, Arduino, Matlab
- Soft Skills: Designing, Sketching, Creativity.

## PROJECTS & EXPERIENCE

### **Predicting Restaurant Waiting Times and Cuisine** / Machine Learning Project

Aug 2024 – Nov 2024 / Chennai

- Developed predictive models using Random Forest and XGBoost to estimate restaurant waiting times and identify popular cuisines.
- Presented findings and submitted at SmartCom 2025.
- Utilized Python for machine learning and data visualization tasks.

### **Shelf Scan: Automated Book Spine Recognition and Cataloging** / Digital Image Processing Project

Aug 2024 – Nov 2024 / Chennai

- Designed an automated system for recognizing and cataloging book spines using OpenCV and EasyOCR.
- Implemented vertical line detection, OCR, and segmentation techniques for high accuracy.

### **Hybrid Encryption System: AES, DES, and 3-DES Integration** / Network Security and Cryptography Project

Aug 2024 – Nov 2024 / Chennai

- Created a hybrid encryption model combining AES, DES, and 3-DES algorithms for enhanced data security.
- Built a secure data encryption system to improve network protection and data integrity.

### **Theories of Motivation (Motivating People)** / Article

Reviewed five motivation theories and their applications in boosting productivity in corporate settings and enhancing student engagement in universities.

## ACHIEVEMENTS

1st Prize (Idea-a-thon): Self-Service Kiosk Website for Restaurants

- Developed a sustainable kiosk system featuring QR-initiated orders and digital receipts.
- Awarded cash prize for project idea development.

Conference Paper Acceptance: Paper accepted at SmartCom 2025 for restaurant prediction models.

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## LANGUAGES

Tamil: Native

English: Limited Working Proficiency

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## HOBBIES & INTERESTS

Swimming, Gym, Sketching, Poetry Reading, and Writing