

# K P AATMIK

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## Skills

**Languages:** C, Java, Python

**Technologies & Tools:** DSA, OOPs, Windows, Visual Studio, Django, Operating System, ChatGPT

## Objective

Driven Computer Science student with a strong foundation in programming languages (Python, C, Java) seeking a Software Engineer Internship at ORACLE to apply my technical skills and contribute to the development of cutting-edge technology solutions.

## Project Work

- **PERSONAL VOICE ASSISTANT USING PYTHON:** VoiceMate-Python-Assistant is a voice-controlled personal assistant script written in Python.
  - Key Functionalities:
    - Natural Language Processing (NLP):** Leveraged speech recognition (using speech recognition) to understand user commands.
    - Text-to-Speech (TTS):** Employed pyttsx3 for voice synthesis, providing a natural and engaging interaction.
    - Contextual Awareness:** Incorporated dynamic greetings based on the time of day, fostering a personalized touch.
    - User Interaction Management:** Established a smooth user experience flow through microphone input handling, recognition, and response.
    - Offline Functionality:** Implemented features like notepad, calculator, and command prompt, empowering users even without internet access.
- **Bankers Algorithm:** This project showcases my ability to apply C programming skills to solve a critical operating systems problem (deadlock prevention).
  - Key Functionalities:
    - Deadlock Prevention:** Ensures safe execution sequences by preventing deadlock scenarios where processes hold onto resources indefinitely, hindering others.
    - Resource Request Evaluation:** Evaluate resource requests from processes, determining if granting the request would lead to a deadlock.
    - User Interaction:** Facilitates user interaction through input/output functions, enhancing usability.
    - Need Matrix Calculation:** Calculates the need matrix, a crucial component of the Banker's Algorithm, which represents the remaining resources required by processes to complete execution.
    - Safety Check Implementation:** Leverages the safety check, a core aspect of the algorithm, to ensure that granting a resource request wouldn't lead to an unsafe state.

## Work Experience

### ROBOCEK GCEK

May 2024 – Present

#### Treasurer

- **Financial Management:** Ensured responsible financial management through meticulous record-keeping, budgeting, and expense tracking.
- **Robotics Workshops:** Collaborated in hosting hands-on robotics workshops, contributing to the technical development and skill-building of club members.
- **Teamwork:** Collaborated with other members to organize workshops and ensure their success.

### IEEE SB GCEK

Mar 2023 – Feb 2024

#### Technical Team Member

- As a technical team member of the IEEE Student Branch at GCEK, I have had the opportunity to be involved in a variety of activities that foster technical skills and community engagement.

- **Event Coordination:** As part of IEEE Xtreme, I helped coordinate an offline output prediction competition. This involved setting up the competition environment, preparing problem statements, and managing participant registrations.
- **Mentorship:** During the competition, I provided guidance and support to participants, helping them understand the problems and navigate any challenges they encountered.
- **Evaluation:** After the competition, I was involved in the evaluation process, reviewing submissions and determining winners based on the accuracy and efficiency of their solutions.

## Education

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### GOVT College of Engineering, Kannur

BTech in Computer Science and Engineering

**Graduation:- 2026**

Relevant Coursework: Object Oriented Programming, Discrete Maths, Data Structures and Algorithms, Operating Systems,

## Volunteering Experience

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- **Mentor at ROBOCEK GCEK:** Helping students to get better at programming, hardware implementation in robotics, etc
  - **Team Coordinator:** Hosted various hands-on workshops for students excelling in problem-solving.

## Additional Information

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- Language:- English, Malayalam
  - Nationality:- India
  - Address:- Aaramsatha house, Kombankallu Kalam, Chathamangalam post, Nemmara, Palakkad, Kerala, 678508