Ashutosh Kumar Pandey
Software Developer

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7571068452 📱

Greater Noida, India 📍

Driven to build what matters, with code that performs and ideas that scale.

WORK EXPERIENCE

Software Developer
Computronics Lab

08/2024 - 05/2025 *Greater Noida,India*

Achievements/Tasks

- Designed, developed, and maintained software applications supporting embedded systems and electronics projects, enhancing system efficiency by 25%.
- Collaborated closely with a cross-functional team of 8+ hardware engineers and researchers to deliver integrated IoT solutions.
- Led end-to-end software development for an IoT-based environmental monitoring system (or Raspberry Pi-controlled robotic arm), managing design, coding, testing, and deployment, resulting in a 30% improvement in system responsiveness.

Contact : 9340321932

Associate Application Developer
Mahadhyuta Ed Tech

01/2024 - 07/2024 *Odisha,India*

Achievements/Tasks

- Develop a cross platform application where i optimize application by 30% and also implemented some machine learning features.

Contact : 9580749227

Intern-Application Developer
Mahadhyuta Ed Tech

08/2023 - 12/2023 *Odisha,India*

Achievements/Tasks

- Working as intern as a post of Associate Application Developer

Contact : +91 9580749227

EDUCATION

Bachelor's Of Computer Application
University of Allahabad

06/2021 - 06/2024 *Prayagaj,Uttar Pradesh,India*

SKILLS

`Arduino/ESP32` `C/C++` `Dart` `Firebase` `Flutter` `Java (basic, if used for Android or backend)` `JavaScript (if applicable)` `MySql` `Python` `Raspberry PI`

PERSONAL PROJECTS

Multi-Sensor Smart Security System (01/2024 - 05/2024)
- Developed an integrated home security system using Raspberry Pi 4, Arduino Uno, and ESP32-CAM.
- Implemented real-time data collection from motion, gas, and temperature sensors.
- Achieved seamless hardware-software communication using serial and Wi-Fi protocols.

Voice-Activated Robot Interface (02/2024 - 04/2024)
- Built a Raspberry Pi-powered robot face with voice recognition using Python and SpeechRecognition library.
- Enabled control of robot expressions and responses using real-time voice commands.
- Integrated OpenCV for eye-tracking and facial animations to enhance user interaction.

Smart Home Control App (10/2023 - 12/2023)
- Developed a Flutter mobile app to remotely control smart home devices via Firebase.
- Integrated real-time sensor data (temperature, motion, gas) from Raspberry Pi using REST API.
- Implemented Firebase Realtime Database and Cloud Messaging for updates and notifications.

Personal Finance Tracker App (07/2023 - 08/2023)
- Built a Flutter app to track daily expenses and categorize them into charts.
- Used SQLite for offline data storage and provider for state management.
- Designed custom animated pie and line charts for expense breakdown.
- Implemented budget alerts and monthly savings goals.

Real-Time Object Detection Application (04/2025 - 05/2025)
- Developed a Flutter mobile application capable of detecting and classifying objects in real time using the device camera.
- Integrated **TensorFlow Lite** with Flutter for on-device inference to identify multiple objects with bounding boxes.
- Utilized **Camera plugin** and **image stream processing** to perform real-time frame analysis.
- Tested on various Android devices to ensure smooth 30+ FPS performance.
- Optimized performance for low-end devices by quantizing the ML model and reducing input resolution.

LANGUAGES

English
Full Professional Proficiency

Hindi
Full Professional Proficiency