

Pavnesh Chaturvedi

Electronics and Communication Engineering
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2019KUEC2037
B.Tech.
Male
DOB: 28/08/2000
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Examination	University/Board	Institute	Passing Year	CGPA / %
Graduation	IIIT, Kota	IIIT, Kota	2023	7.83 (Till 4th Sem.)
12 th	CBSE	KMCA, Bewar, Mainpuri	2018	89%
10 th	CBSE	KMCA, Bewar, Mainpuri	2016	10.0

KEY PROJECTS

Zine Chat, Zine Robotics, Feb '21 ([Frontend](#) | [Backend](#) | [Website](#) | [App](#))

- Chat application which is used as a communication channel for doubts during robotics workshops for juniors.
- Tech Stack: NodeJS, SocketIO, MongoDB, React, Flutter. Used by over 100 people.
- My role was to **develop the backend API** and help the team in integrating it to web and app frontend.

Mannequin QnA Project, Zine Robotics, September '20 ([Github](#))

- A raspberry pi based mannequin bot with QnA interface for teachers and students of a NGO-based school in Jaipur.
- Main technology and frameworks used: Cosine similarity, Gensim, word2vec, snowboy, pyttsx3, SpeechRecognition.
- My role was to implement hindi QnA functionality to the existing project.

Image Processing Bot, IIT KGP Techfest, Dec '19 ([Github](#))

- A completely wireless **computer vision** bot to traverse a path of various shapes and obstacles.
- Configuration: 3D Printed Chassis, Stepper Motors & Drivers, Arduino Nano, FPV Camera & Receiver.
- My role was to program the stepper motor's driver, writing computer vision code.

TECHNICAL STRENGTHS

- Programming Languages: C++, Python, Javascript
- Frameworks & Libraries: OpenCV, Tensorflow, Pandas, ROS (Robot Operating System), MERN Stack
- Fluent with GNU/Linux, Git, Sensors and IC/MCU used in Robotics Projects

ACHIEVEMENTS AND RESPONSIBILITIES

- **Grand Prize Winner** at FOSSASIA Codeheat.
- Merged pull requests in various open source organizations including FOSSASIA.
- Part of ZINE Robotics and Research Group (zine.co.in) and regularly participated in robotic events across the country, including IIT Kharagpur. Successfully conducted a 9-day robotics workshop for 100+ students with a team of 10 Members.
- Webmaster at [TnP Cell](#), IIIT Kota

INTERESTS

- Robotics, Computer Vision, Web Development and Open Source
- Reading Novels, various blogs.
- Playing Chess