

# Tejas Kale

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*As a committed Electronic Engineer with proven analytic skills, my objective is to advance expertise in electronics and IT processes while contributing to innovation solutions and operational efficiency in your Organization*

## PATENT PUBLICATION

**Patent Title:** A Data Analytics Configuration For An Unmanned Aerial Vehicle

**Application Number:** 20241043408

**Filing Date:** 2024/06/27

**PUBLICATION DATE:** 2024/07/19

**Inventors:** GREINVENTEK PRIVATE LIMITED

## EXPERIENCE

### Circuit Developer

Dec 2023-Jan 2024

Adolf Solution

-Designed and developed a sine wave inverter using IGBT's during an internship at Adolf Solution Pune

-Used a PIC

Electronic microprocessor to Generate an 18 kHz PWM Signal to drive the IGBT's Gate, Ensuring effective Power.

([https://in.docworkspace.com/d/clHOej6Ad2UxLUG?utm\\_source=wps\\_office\\_mac&utm\\_medium=comp\\_border\\_bar&utm\\_content=link](https://in.docworkspace.com/d/clHOej6Ad2UxLUG?utm_source=wps_office_mac&utm_medium=comp_border_bar&utm_content=link))

### Software Development Intern

Feb 2024-Feb 2024

ApexaiQ .

-As a software intern at ApexaiQ created a real time data Gathering and analysis system health monitor with user interface.

([https://in.docworkspace.com/d/clE2rjOL6AYmRxLUG?utm\\_source=wps\\_office\\_mac&utm\\_medium=comp\\_border\\_bar&utm\\_content=link](https://in.docworkspace.com/d/clE2rjOL6AYmRxLUG?utm_source=wps_office_mac&utm_medium=comp_border_bar&utm_content=link))

-Utilize python agents and Kubernetes to Facilitate proactive problem solving and system optimization.

### Captain

2023-Present

Vihang drone club.

-Leader team to complete 10 innovation drone technology project in one year.

-Won multi-rotor and Init Hack Competitions for truncation and problem solving.

-Coordinated project planning exhibition and term collaboration for timely delivery.

## PROJECTS

### Drone Flight Controller | STM32F411CEU6, FIRMWARE

May 2023-July 2023

([https://in.docworkspace.com/d/C112ejOL6AZOSxLUG?utm\\_source=wps\\_office\\_mac&utm\\_medium=comp\\_border\\_bar&utm\\_content=link](https://in.docworkspace.com/d/C112ejOL6AZOSxLUG?utm_source=wps_office_mac&utm_medium=comp_border_bar&utm_content=link))

-An innovative UAV flight controller equipped with STM32, MPU6000, magnetometer, barometer, and machine Learning, enhancing stability and autonomy.

-Project nearing completion for patent in approval, highlighting advanced sensor integration.

### Water and Soil Data Analysis. Data analysis Seaborn, Flask, Data Mining, Python.

June 2023 – Sep 2023

[https://github.com/Tejaskal/water\\_data\\_analysis](https://github.com/Tejaskal/water_data_analysis)

-Utilize python tools (pandas, Seaborn, Numpy, Matplotlib, Flask) and Power BI for analyzing and Visualizing water data, revealing insightful trends.

-Employed Flask and data mining technique for efficient data extraction and processing.

### Voice Assistance | Lambda Algorithm, Pytorch, Pyttsx3, SQL

July 2022 – Sept 2022

[https://github.com/Tejaskal/vision\\_voice\\_bot](https://github.com/Tejaskal/vision_voice_bot)

-Build a voice control chatbot in python using speech recognition and text to speech capabilities.

-Integrated a pre-trained GPT-2 model for generating responsive and contextual appropriate dialog.

Education

Shri Sant Gajanan Maharaj College of Engineering Shegaon,Maharashtra

BE. Electronic And Telecommunication engineering

CGPA- 8.12/10

Shegaon

Jay Bajrang Mahavidhyala Kumbhari Akola

12th Boards

Percentage -82.40%

Akola , Maharashtra

feb 2020

Vidhyaniketan English School Hingoli,

10th Boards

Percentage -82.40%

Hingoli , Maharashtra

March 2018

Cources

Data Analytic,Udacity(Nano Degree)

July2023-September 2023

Technical Skills

Languages: C++, Embedded C,Python, Micro Python

Core Subjects: Microcontroller ,Analog And Digital Circuit Design, Networking Protocol, Networking Theory

Technical skills : Oread,Altium,AI Tools(Gemini,chatgpt)Drone Design and Development

ACHIEVEMENT

-Runner Up at IIT Kanpur Multirotor Compition.

-Punner Up at Drone Race Compition in Jalgaon

EXTRA CIRICULAR

-Founder and Captain of Vihang Drone Club.

HOBBIES

-Technical Exploration

-Reading

PERSONAL DETAIL

Tejas Santosh Kale

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Language: Marathi,Hindi,English

DECLARATION

I hereby declare that the information provided above is true and Accurate to the best of my knowledge and belief.

Signature

Date:

Name: [Tejas Santosh kale]

