# Vivekanand B

Engineer • Innovator • Entrepreneur  
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## Summary

Seasoned AI Integration and Test Automation Specialist with over 7 years of expertise in developing AI-powered applications and automating processes. Skilled in integrating AI solutions with Microsoft Dynamics 365 Business Central to improve system functionality and efficiency. Proven track record of leading cross-functional teams and executing successful integrations. Proficient in AI technologies including machine learning, natural language processing, and computer vision. Passionate about leveraging AI for meaningful impacts.

## Skills

* Programming Languages & Frameworks: Python, JavaScript, Flask, Playwright
* AI Technologies: Machine Learning, Natural Language Processing, Computer Vision, OpenAI API, Google Vertex API
* Data Analysis & Visualization: Pandas, Power BI, Jupyter
* Cloud & DevOps: Google Cloud Platform (GCP), Docker, Jenkins
* Databases: MongoDB, MySQL, SQLite
* Project Management & Tools: RESTful APIs, Software Architecture, Jira, Agile, Networking Protocols

**Programming Languages & Frameworks:**

**AI Technologies:**

**Data Analysis & Visualization:**

**Cloud & DevOps:**

**Databases:**

**Project Management & Tools:**

## Experience

### AI Integration and Test Automation Specialist

Software Engineer | NovaSignal / NeuraSignal | Bangalore, India  
Nov 2020 – Present

**Software Engineer | NovaSignal / NeuraSignal | Bangalore, India**

*Nov 2020 – Present*

* AI-Driven Test Automation:
* Developed robust test automation scripts for GUI applications using Python and PyTest to enhance Business Central functionalities.
* Integrated AI solutions using OpenAI Assistant API to auto-generate test scripts and streamline testing processes.
* Technologies: Python, PyTest, OpenAI Assistant API
* Cloud Progressive Web Applications:
* Assisted in testing and enhancing cloud applications using Playwright for UI and PyTest for API testing, ensuring seamless integration with Business Central.
* Technologies: Playwright, PyTest, GCP
* Microservices and API Development:
* Designed RESTful APIs for secure data exchange between healthcare systems and cloud services, facilitating integration with Business Central.
* Technologies: Python, Flask, RESTful APIs, MLLP

**AI-Driven Test Automation:**

Technologies: Python, PyTest, OpenAI Assistant API

Cloud Progressive Web Applications:

**Cloud Progressive Web Applications:**

Technologies: Playwright, PyTest, GCP

Microservices and API Development:

**Microservices and API Development:**

### Founder & Technician

Gadjoy Repair Services | Bangalore, India  
Nov 2016 – Jan 2021

**Gadjoy Repair Services | Bangalore, India**

*Nov 2016 – Jan 2021*

* Managed successful technology repair services, implementing custom software solutions to optimize business processes, reflecting strong entrepreneurial and problem-solving skills.

### Sr. Engineer | Senior Lead Engineer

Tech Mahindra & Legend Technologies  
Jan 2013 – Jan 2021

**Tech Mahindra & Legend Technologies**

*Jan 2013 – Jan 2021*

* Led teams in mechanical design and integration projects, gaining transferable skills vital for cross-functional collaboration and project leadership.

## Education

* Bachelor of Engineering (Mechanical Engineering)  
   Visvesvaraya Technological University (VTU) | First Class with Distinction | 2011

**Bachelor of Engineering (Mechanical Engineering)**

## Patents & Publications

* Patents: System and Method of Generating Image of Vascular Flow Network - US20230329668A1
* White Papers: Published research on aerospace manufacturing techniques and design innovations.

**Patents:**

**White Papers:**

## Volunteering

* Developed an IoT-based air quality monitoring system and contributed to COVID relief efforts, demonstrating commitment to community welfare and technology-based solutions.
* Mentored aspiring engineers, fostering career growth and skill development within educational and professional communities.