# VIVEKANAND B

Engineer • Innovator • Entrepreneur  
vivekanandb@hotmail.com | +91-97381-26623  
[GitHub](https://github.com/vivekanandba) | [LinkedIn](https://www.linkedin.com/in/vivekanand-balakrishnan-68448777)

## SUMMARY

Experienced Software and Mechanical Engineer with over 10 years of experience, specializing in AI integration, test automation, and software development. Proven ability to develop AI-powered solutions to automate processes and enhance efficiency. Skilled in leading cross-functional teams to success and integrating complex systems. Proficient in Python, JavaScript, and various AI technologies. Passionate about leveraging AI to create impactful solutions.

## SKILLS

* **Programming Languages & Frameworks:** Python, JavaScript, Flask, Vue.js
* **AI Technologies:** OpenAI API, Google Vertex API, Vision API
* **Test Automation:** PyTest, Playwright, AI-integrated test scripts
* **Cloud & DevOps:** Google Cloud Platform (GCP), Docker, Jenkins
* **Integration:** RESTful APIs, HL7, DICOM, Microsoft Dynamics 365 Business Central (familiarization potential)
* **Tools & Project Management:** Software Architecture, Jira, Agile, ISO 13485

## EXPERIENCE

### Software Engineer

**NovaSignal / NeuraSignal**  
Nov 2020 – Present | Bangalore, India

**AI and Test Automation Solutions for Cloud Applications**  
- Developed automated test scripts using PyTest for cloud-based applications, leveraging AI tools to enhance test automation efficiency. - Spearheaded the integration of AI-driven applications with cloud services, improving data-driven decision-making.

**API and Integration Development**  
- Designed RESTful APIs for secure data integration, ensuring robust connections between services and compliance with healthcare standards.  
- Leveraged advanced integration techniques for data transmission, showcasing proficiency in secure and efficient system communication.

**AI-Driven Automation Frameworks**  
- Innovated test automation frameworks using AI technologies, improving test coverage and reducing process timelines. - collaborated with teams to implement AI-driven solutions, enhancing functionality and operational efficiency.

### Founder & Technician

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

* Founded and managed a gadget repair service, enhancing customer satisfaction and operational efficiency through technology solutions.
* Developed software systems for device monitoring and management, demonstrating strong problem-solving skills and entrepreneurial acumen.

### Senior Engineer

**Tech Mahindra**  
Jan 2019 – Jan 2021  
**Senior Lead Engineer**  
**Legend Technologies**  
Jan 2013 – Jan 2019  
**Trainee Engineer**  
**Safran Engineering India**  
Aug 2011 – Dec 2012

* Led multi-disciplinary teams in aerospace design and manufacturing, utilizing advanced CAD and simulations.
* Created software scripts for automation in mechanical design tasks, demonstrating project management skills.

## EDUCATION

* **Bachelor of Engineering (Mechanical Engineering)**  
  Visvesvaraya Technological University (VTU) | First Class with Distinction | 2011
* **Deep Learning & Machine Learning Specialization (Andrew Ng)**

## PATENTS & PUBLICATIONS

* **Patents:** System and Method of Generating Image of Vascular Flow Network - US20230329668A1
* **White Papers:** Research on aerospace manufacturing and slip ring design

## VOLUNTEERING

* Contributed to IoT-based air quality and COVID relief platforms with mapshalli.org, Whitefield, Bangalore.
* Mentored engineering graduates and junior professionals in skill development and career growth.
* Organized engineering society events within the local community.