### Mr. Sachin Chandrakant Bidwai

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#### **SUMMARY**

- > Developed a vision system using Python and OpenCV to generate accurate **3D coordinates for welding robots** in an **industrial automation setup.**
- ➤ Collaborated with **Zasmlabs Pvt. Ltd.** on the development and evaluation of **AI** and **Machine learning** projects.
- ➤ 1 year of hands-on Software Development experience with Autodesk, specializing in C++, Qt
- Conducted sessions at various colleges to inspire and educate students on "The Role of Mathematics in Industry", sharing insights from my experience as an industry expert.
- ➤ 1.5 years of expertise as a Subject Matter Expert (SME) and E-Tutor in the educational IT sector.
- > Served for 1.5 years at **Yogendra Sangale Social Foundation**, where I led financial planning and collaborated on socially impactful initiatives at the leadership level.
- ➤ 2.5 years of leadership experience as the Founder & Director of an educational organization.
- A remarkable 13+ years of dedication as an Assistant Professor in Mathematics for both postgraduate and undergraduate students.
- ➤ My subject expertise lies in **Applied Engineering Mathematics**, covering a wide spectrum of topics, including:
  - ❖ Linear algebra, Complex Analysis, Ordinary and Partial Differential Equations
  - ❖ Multivariable Calculus, Vector Calculus, Transformations, Computational Geometry
  - Group, Ring and Field Theory, Statistics, Probability

This diverse skill set positions me to excel in challenging roles, leveraging my strong foundation in **Mathematics** and extensive experience in **Software Development** and **Education**.

### **PROFILE**

• Results-driven Software Developer with a strong foundation in Mathematics and a passion for data- driven technologies, seeking challenging roles in AI, ML and Data Science.

### TECHNICAL SKILLS / PROFICIENCIES

Skills : Python, R, C++, Mathematical Modeling, Vision System Solution.

HPC (High-Performance Computing), Parallel Computing, Multithreading,

OpenMP, MPI, CUDA.

Database : SQL

iDEs : Microsoft Visual Studio, Spyder, R-Studio, Jupiter Notebook, Qt Creator

Libraries : Numpy, Pandas, OpenCV, Sci-kit learn, Matplotlib, Sympy

Versioning Tools : GitHub

Software Tools & Applications : JIRA, Qt Designer, Google COLAB, REPLIT,

Kaggle Operating Systems : Windows, DOS

### PROFESSIONAL EXPERIENCE SUMMARY

## > Freelance Software Developer

Freelancing Work Feb 2023 – Till Date

- Engaged in freelance Software Development Projects, focusing on Vision Systems.
- Utilized **Python**, the **OpenCV library** and advanced **image processing techniques** to contribute to industrial automation projects.
- Utilized a Vision System to precisely measure dimensions & identify Coordinates of real-world objects.

### > Member of Technical staff

Centre for Computational Technologies (CCTech), Pvt. Ltd, Pune.

Jan 2022 – Jan 2023

Client: Autodesk Inc.

Working as a **Member of Technical staff** for the **Infraworks** team. The team develops and maintains features for the **Autodesk Infraworks** software which falls under the Building and Infrastructure domain.

• Worked on migration of Autodesk InfraWorks from Qt5 to Qt6 using C++, JavaScript & Qt framework. Environment: C++, JIRA, GIT, Qt, JavaScript, Microsoft Visual Studio.

### > Founder & Director

Dipjyoti Home Tuitions, Pune.

Jun 2018 - Jan 2021

• Successfully managed an academic institute specializing in **Mathematics** for students across various academic levels like **Jr College**, **Engineering**, **BCS**, **MBA**, **ME**.

## Technical Proof Reader and Subject Matter Expert (SME)

Flipick Private Limited, Viman Nagar, Pune

Dec 2019 – Jun 2020

 Developed topic-wise study plans and exam structures for a JEE exam-focused educational app, providing Mathematics solutions.

## Assistant Professor

Sinhgad College of Engineering, Vadgaon(BK), Pune

Jan 2013 - Jun 2018

- Taught Engineering Mathematics subject to undergraduate Engineering students.
- Taught Advanced Mathematics subject to Master of Engineering students.
- Held key positions such as Sport Coordinator, Library Coordinator and Exam Coordinator.

#### > E-Tutor

Techknit IT Enabled Services Pvt. Ltd, Pune

Sep 2007 – Mar 2008

• Instructed online **Mathematics and Statistics courses** to students in the **US** and **UK** up to the graduation level.

#### **PROJECTS**

Following Projects did in Python and libraries used: Numpy, Pandas, OpenCV, Matplotlib, SkLearn, Pickle.

- ➤ Implemented a **Vision System** to accurately measure the dimensions of real-world objects.
- > Second Hand Car Price Prediction Eliminating agent's malpractices on buying and selling
- ➤ IPL Auction Grouping best team for Mrs. Neeta Ambani
- ➤ Helping YouTube Maximizing advertise revenue
- ➤ Identifying the Defaulter Processing CIBIL score and demographic data for bank's loan department

## **CERTIFICATIONS**

**	Fundamentals of Accelerated Computing with CUDA Python	June 2025 - June 2025
*	Machine Learning with Industry-Ready Project	June 2024 - Nov 2024
*	Data Science with Python Course: Hands on Data Science 2021	Oct 2021 – Nov 2021
*	Data Science 2021: Complete Data Science & Machine Learning	Sep 2021 – Oct 2021
*	Easy Python Programming Beginners Pro Python SQL, MySQL, Mongo	Sep 2021 – Oct 2021
*	The Complete Python Course   Learn Python by doing	Aug 2021 – Sep 2021
*	NPTEL online Certification with Gold Medal (5% Topper)	Jul 2017 – Sep 2017
	Indian Institute of Technology, Kanpur	
	> Introduction to R Software	
*	<b>Aptech Computer Education Certification</b>	Jun 2000 – Jul 2002
	➤ Object Oriented Programming using Java 2.0	

# ➤ Desktop Application using VB.NET

EDUCATION					
M.Sc. Mathematics	Savitribai Phule Pune University, Pune	First Class	July 2007		
<b>B.Sc.</b> Mathematics	Savitribai Phule Pune University, Pune	First Class	June 2005		
DECLADATION					

#### DECLARATION

I hereby declare that all information submitted is true, complete and correct to the best of my knowledge and belief.

Mr. Sachin Chandrakant Bidwai