

# SIDDHARTH SAINI

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## Academic Details

Year	Degree	Institute	CGPA/%
2023	B.Tech Computer Science & Engineering	Indian Institute Of Information Technology, Raichur <i>Mentored by IIT Hyderabad</i>	9
2018	XII (CBSE)	S. D. Vidya Mandir, Panipat, Haryana	95.4%
2016	X (CBSE)	S. D. Vidya Mandir, Panipat, Haryana	10

## Work Experience

- Machine Learning Intern** at **CKM VIGIL Pvt. Ltd.** [May 2021 - Present]
  - Working on the **Semiconductor Wafer Defects Detection** using the state of art **Semantic Segmentation** with different models - EfficientDet, YOLO-v5, UNet etc.
  - Used a database of **38,000 mixed type defects** which is used to research on the wafer defects in the wafer manufacturing process.
  - Working on the publication after enhancing these models with custom changes and introducing novelty.

## Projects

- Flutter App: Locating Nearby Healthcare Centres (Sup: Dr. M V Panduranga, Associate Professor, CSE, IIT Hyderabad)** [Sep'20]
  - Developed a flutter app which allows a user to locate nearby healthcare and wellness centres, which are opened under the Aayushman Bharat Yojna, India.
  - Used **Flutter, Dart** and **Google Maps API**.
- Designing Programming Language : DevaN (Sup: Dr. Ramakrishna Upadrasta, Asst. Professor, CSE, IIT Hyderabad)** [Oct'20]
  - Designed a programming language from scratch which is implemented in Hindi script. No such Programming Language exists till date.
  - The language is based on the imperative paradigm which includes both procedural and OOP. - [GitHub Link](#)
- Warehouse Management System (Sup: Dr. M V Panduranga, Associate Professor, CSE, IIT Hyderabad)** [Nov'20]
  - JAVA** project aimed at managing a huge quantity of stocks and products and keeping a record of all the products with their cost, stock, and transactions along with the records of all the Customers, Suppliers etc.
  - Made the database using **MySQL** on a local host server. - [GitHub Link](#)

## Skills

- Languages:** C, C++, Python, SQL
- Tools:** Git, LaTeX, LINUX
- Frameworks & Libraries:** Tensorflow, PyTorch, Turicreate, Matplotlib, Pandas, Numpy, OpenCV
- Creative Tools:** Final Cut Pro, Adobe Premiere Pro, Adobe After Effects, Adobe Photoshop

## Relevant Courses

- Data Science:** Introduction to AI and ML, Machine Learning - Regression, Classification, Clustering, Recommender Systems, Deep Learning & Neural Networks - [Certificate Link](#)
- Computer Science:** Data Structures, Algorithms, Computer Architecture, Operating Systems, Database Management System, Theory Of Computation, Complexity Theory, Principles Of Programming Languages (Basics)

## Positions Of Responsibility

- Multimedia Coordinator** : Elan & nVision, Annual Techno - Cultural Fest, IIT Hyderabad [Oct'20 - Present]
- Design Manager** : E-Cell, IIT Hyderabad [Sep'20 - May'21]
- General Secretary** : Students' Gymkhana, IIIT Raichur [Jul'20 - May'21]
- Head Boy** : Students' Council, S. D. Vidya Mandir [2017 - 2018]

## Scholastic Achievements

- 2nd Prize** for “**State-of-the-art Multi-class Wafer Defect Detection & Segmentation in Semiconductor Manufacturing**” - Innovation in Manufacturing Processes 2021 by INAE & NatFoE 2021 [July 2021]
- Best Performer in Academics**, CSE Department, IIIT Raichur [2019 - 2020]
- Ranked in **Top 2%** among 1.2 Million Students in Joint Entrance Examination [2019]