# S Siddarth Babu

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B.Tech - Computer Science and Engineering
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## Career Objective

- I am looking to work as an IT professional in a Dynamic Internet Company.
- B.Tech undergraduate looking forward to expand my learnings, knowledge and skills.
- Have a good knowlegde of programming languages.

## Education

| Degree/Certificate | Institute/Board | CGPA/Percentage | Year |
|---|---|---|---|
| B.Tech | Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram | **7.57** | 2020-Present |
| P.U.C | Karnataka State Secondary Education Examination Board | **8**2.33 | 2018-2020 |
| School | Indian Certificate of Secondary Education (ICSE) | 79.16 | 2017-2018 |

## Projects

- **Moving Object Detection**
  ***Tech Stack** : Python* link to repo
  – Moving Object Detection system using Python and OpenCV, which can detect and track moving objects in real-time video streams.
  – real-time video processing and analysis using OpenCV, Math.

- **Two player Checkers game**
  *Tech Stack : C++* link to repo
  – This is a 2 player command line game.
  – Every move is validated for its correctness before displaying.
  – Implemented using C++.

- **Covid-19 impacts Analysis**
  ***Tech Stack** : Python, Pandas, Plotly* link to repo
  – Python code that analyses the impacts of Covid-19 on countries which tells most no. of Covid cases, most no. of deaths due to covid, GDP comparison of countries before and during Covid-19 and Human Development Index during Covid-19 .
  – Pandas for performing operations on csv files,Plotly for graphical representation.

- **Loan Status Analysis**
  ***Tech Stack** : Python, Numpy, Pandas, Matplotlib, Seaborn, Sklearn* link to repo
  – Developed a loan status analysis project that helps financial institutions predict the likelihood of loan default using advanced machine learning techniques.
  – In this ML model SVM is used and also attained an accuracy of 81.25 with small datsset.

- **Crop Recommendation**
  ***Tech Stack** : Python, Pandas, Pickle, Sklearn* link to repo
  – Developed a crop recommendation project that leveraged machine learning algorithms to suggest the most suitable crops for farmers based on soil and climate conditions.
  – In this ML model Random Forest Classifier is used and also attained an accuracy of 93.63 with medium size datsset.

- **Amazon Clone Website**
  ***Tech Stack** : MongoDB, Express, React, Node(MERN) and Postman* link to repo
  – This is a full-stack web application.
  – Amazon clone app that replicated the core features and functionality of the original Amazon platform, including product listings, user authentication, and shopping cart management. While the app did not include a payment gateway, it provided a robust user experience for browsing and selecting products, as well as an easy-to-usecheckout process.
  – Implemented using MongoDB, Express, React, Node(MERN) and also Postman for testing the API.

## Technical Skills

- **Languages**: Java, C/C++, Python, JavaScript, HTML, CSS
- **Database**: MySQL, MongoDB
- **Developer Tools**: Git, VS Code, Visual Studio, Vercel, Jupyter Notebook
- **Frameworks**: Node.js, Express.js, Bootstrap
- **Machine Learning**: Pandas, Numpy, Scipy, Matplotlib, Scikit-learn, Plotly, OpenCV
- **Presentations**: MS Office, Canvas, Balsamiq Wireframe

## Key Courses Taken

**Machine Learning**: Data Science, Pattern Recognition.
**Computer Science**: Computer Networks, Operating Systems, Database Management System, Object Oriented Programming, Theory of Computation, Design and Analysis of Algorithms, Data Structures and Algorithms.
**Mathematics**: Calculus, Linear Algebra, Discrete Mathematics, Probability and Differential Equations.

## Achievements

- **Qualified**, in the Ehipassiko industry open house innovation challenge conducted by the MaDeIT Innovation Foundation Technology Business Incubator, Chennai. *2021, 2022*