M.B. SAI ADITYA

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Education

- **National Institute of Technology Karnataka** Manglore, India
  Bachelor of Technology - Mechanical(Major), Information Technology (Minor) *CGPA : 8.73/10*
  *C*urrently in 5th Semester (3rd Year)

Experience

- **Department of Mathematical and Computational Sciences, NITK** May 2022 - July 2022
  Summer Research Intern
  - Revamped the Product/Movie Review System with Sarcastic Comments/Reviews segregator.
  - Researched on Sentiment Analysis, Word Embedddings (GloVe, Word2Vec)

- **The Institute of Engineering and Technology(IET), NITK** April 2022 - Present
  Webmaster
  - Lead the maintenance of the Gatsby website for the club.
  - Developing CEMS, Worboard to Continuously Improvise the website.

- **BAJA NITK (Media Team)** April 2021 - Present
  Lead Web Developer
  - Developed and Lead the maintenance of the website for the club.
  - Continuously Improvising the website with new UI/UX and adding features such as Gallery, Alumni etc.

Projects

- **Sarcasm Detection (NLP, Deep Learning (RNN's,LSTM, GRU))**: Project Link
  (Ongoing)
  - Developing an Deep Neural Network to segregate Sarcastic Comments/Reviews from Product/Movie Reviews System
  - Packages/Libraries used: Tensorflow, Keras and NLTK.
  - Achieved a Validation Accuracy of 92.6 %

- **Whatsapp Chat Analysis(Exploratory Data Analysis)**: Project Link
  - Developed a system for Statistical Analysis of Individual/Group Whatsapp Chats without Media files being icluded.
  - Used Heatmaps, Bar Charts and Pie Charts to graphically represent the statistical data.
  - Packages/Libraries used: Pandas, urlextractor and emojis

- **Handwritten Equation Solver(Deeplearning, CNN)**: Project Link
  - Collaborated and Created a Deep CNN for detecting handwritten equation and then solved it using custom scripts.
  - Packages/Libraries used: Tensorflow, Keras and Kaggle
  - Achieved a Validation Accuracy of 95.4 %

- **Real Time Motion Detection Software(Computer Vision, YOLO Algorithm)**: ProjectLink
  - Used OPEN-CV and YOLO to detect motions from video in Realtime and Embedded it into a Software using Tkinter .
  - Packages/Libraries used: OpenCV, YOLO v3 and Tkinter

- **Facial Authentication for Website (Admin Panel)(Computer Vision)**:
  - Used OPEN-CV to for Admin's Face Recognition and used this recognition system as an Authentication on the website
  - Packages/Libraries used: OpenCV and Flask

Technical Strengths

- **Languages**: Python, C/C++, JavaScript, SQL
- **Frameworks**: Scikit, NLTK, TensorFlow, Keras, Flask, Django, NodeJS
- **Skills/Knowledge**: Machine Learning, Deep Learning, NLP, Backend Web Development
- **Databases**: Firebase, MYSQL, MongoDB