

Suryateja Chakkapalli

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EDUCATION

IIT Bhubaneswar

Bachelor of Technology, Electronics and Communication, CGPA - 8.93

Bhubaneswar, Odisha

1 Aug 2018 – 15 May 2022

Tirumala Junior College

Intermediate, Board of Intermediate Education - A.P, Percentage - 98.5

Rajamundry, Andhra Pradesh

24 June 2015 – 29 May 2017

Sri Chaitanya School

Class X, Andhra Pradesh State Board, CGPA - 9.8

Kakinada, Andhra Pradesh

14 June 2014 – 9 April 2015

EXPERIENCE

BYJU'S

10 June 2022 – present

Software Engineer | MongoDB, React, Node, Express, TypeScript, BatchJobs, Kafka, Java

- Devised and implemented a robust pipeline to seamlessly propagate leads generated from marketing pages to the lead portal within Byjus, ensuring smooth and efficient data transfer.
- Spearheaded the development of a series of captivating and dynamic frontend pages using the cutting-edge Next.js framework, enhancing the user experience and elevating the visual appeal of the web platform.
- Developed multiple restful apis for the marketing pages.
- Built a google based authentication system in tracking the users who are using the web application.
- Collaborated on a team to create an empowering low-code platform for marketing, enabling seamless creation of captivating web pages for marketing in byjus.
- Developed a tailored notification system utilizing a Slack webhook for receiving prompt alerts on code failures.
- Integrated some feature toggling mechanism to the marketing pages for implementing some marketing strategies
- Guided and mentored interns in completing their onboarding task and initial projects.
- Assisted in resolving challenges within the current pipeline to facilitate the transfer of student information to the CRM seamlessly.
- Presently, I am involved in the development of an internal CRM system designed to capture leads and enhance customer management capabilities.

Luminous Power Technologies

24 May 2021 – 3 Aug 2021

Summer Intern | ML Algorithms, Modbus Protocols, tkinter

- A python application was developed to communicate with modbus protocol. The GUI of the application is developed using the tkinter.
- The data extracted from the device is fed to the ML model developed using the decision trees and one hot encoding.
- The ML model forecasts the power usage of the customer based on the date and time.
- The forecasted output is useful in optimising the usage of the grid power by leveraging the use of the solar power

PUBLICATIONS

Conference Proceedings

- C. M. Suryateja, S. Boppu, L. R. Cenkeramaddi and B. Ramkumar, "Hand Gesture Recognition System in the Complex Background for Edge Computing Devices," 2022 IEEE International Symposium on Smart Electronic Systems (iSES), Warangal, India, 2022, pp. 13-18, doi: 10.1109/iSES54909.2022.00016.

SCHOLASTIC ACHIEVEMENTS

- Secured All India Rank (Open) 3387 in Joint Entrance Examination Advanced.
- Secured All India Rank (Open) 121 in Joint Entrance Examination, Main Paper-II.
- Secured 160 rank in Andhra Pradesh, EAMCET.
- 17th rank in AMRITA Examination, 21st rank in Sathyabhama University Examination.

PROJECTS

- Gesture Recognition in Complex Background** | *Opencv, Media-pipe, sklearn* Aug 2021 – April 2022
- Constructed a robust model capable of accurately predicting gesture recognition even in complex backgrounds.
 - The model, employing SVM and mediapipe, achieved an impressive 98% accuracy while maintaining an average inference time of just 60 *ms*.
 - The model is implemented on edge computing devices like Raspberry Pi 4 and NVIDIA Jetson AGX Xavier.
- Drowsiness Detection** | *Deep Learning, OpenCV, Keras* Nov 2020 – Dec 2020
- Devised an alert mechanism to rapidly notify individuals when drowsiness was detected, based on eye-opening patterns.
 - Created a CNN model using openCV in python.
 - The model was trained using a personally curated database of real-time webcam images.
- Movie recommender system** | *Embedded Matrix, Collaborative filtering* Sept 2020 – Nov 2020
- Developed a movie recommender system model using Collaborative Filtering technique to deliver personalized movie suggestions.
 - Trained the model using the available data in Kaggle.
- Personal Blog** | *React, Node* May 2020 – May 2020
- Developed a personalised blogging webs app for publishing my thoughts and articles.
 - Created a login form and storing the details of the customer in mongodb.
 - The web app is being hosted using the netlify free hosting service.

TECHNICAL SKILLS

Languages: JavaScript, Java, Python, C/C++, SQL, HTML, CSS, Matlab, Verilog, Bootstrap, PHP.
Developer Tools: Git, Visual Studio Code, PyCharm, Jupyter Notebook.
Libraries: React, Next, Strapi, OpenCv, NumPy, Matplotlib, Pandas, Tensorflow, Prophet.
Databases: SQL, MongoDB
Industry Knowledge: Machine Learning, Data Structures, Deep Learning, Basic Tree and Graph Algorithms, Datadog, Corologix, MERN Stack, Kafka

RELEVANT COURSES

Electives:
Software Engineering, Digital Forensics, Multi-Media Systems, Adaptive Signal Processing, Machine Learning and Data Analytics, Advanced Digital System Design.
Lateral Courses:
Planning and Management, Machine Learning, Economics, Environmics
Certifications:
Neural Networks and Deep Learning from DeepLearning.ai through Coursera.
Python from Michigan University through Coursera.
HTML, CSS, and Javascript for Web Developers from Johns Hopkins University through Coursera.

POSITION OF RESPONSIBILITIES

- Governor** | *Web and Design Society, IIT Bhubaneswar* August 2020 – July 2021
- Helping students achieve more by discovering new opportunities and guiding novel projects.
 - Coordinating with the members of the society.
- Core Head** | *E-Summit, IIT Bhubaneswar* March 2020 – May 2021
- Conducting Workshops to develop skills of my team members.
 - Designing the front end of the websites related to summit using front end tools and frame works.
- Core Team Member** | *E-Summit, IIT Bhubaneswar* March 2019 – Feb 2020
- Managing Tech workshops during Summit.
 - Designed Digital Arts and Posters for publicising events during summit.

EXTRA CURRICULAR ACTIVITIES

- NSS Volunteer** August 2018 – August 2019
- Actively participated in a 5k run commemorating the birth anniversary of Sardar Vallabhbhai Patel, promoting unity and raising awareness among people.
 - Engaged in a Health Campaign organized by the NSS Team, IIT Bhubaneswar, at a primary school in Odisha.