Sudhanshu Kumar

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LinkedIn | GitHub | HackerRank

EDUCATION

PARALA MAHARAJA ENGINEERING COLLEGE | B.Tech in Computer Science
Berhampur, Odisha 2019-2023

- CGPA : 9.45 / 10.0

ST. PAUL'S SCHOOL | Rourkela, Odisha

- XII - ISC: Percentage: **96.25%** 2017- 2019
- X - ICSE: Percentage: **89.2%** 2006- 2017

EXPERIENCE

GEEKS FOR GEEKS | Technical Content Engineer Intern
March 2021 – Current | Remote

- Published **35+** technical articles on technologies like **R, Node.js, CSS, JavaScript** etc.
- Improved **10+** articles on **Data Structures and Algorithms.**

SPARTIFICIAL | Machine Learning Intern
Nov 2021 – Dec 2021 | Remote

- Worked on NASA JPL Asteroid Dataset using **Neural Nets** and **Boosting** algorithms like LightGBM, XGboost, Catboost, ANN(keras), Multilayer perceptron, ANN(keras) etc.
- Performed comprehensive EDA on the **asteroid dataset.**

PROJECTS

- **Toxic Comments Classification** 🔗: Using **NLP** , built a social media comments classifier which classifies the comment into 6 categories of toxicity(or hate speech). Pre-processed text 20% faster with **spaCy** . Solved the problem of **vanishing gradient** by using **LSTM over vanilla RNN** for training our deep learning model, got an accuracy of **96.6%** . Built a Web-app using **Streamlit** and deployed it to production on **Heroku cloud.**
- **Social Media (GraphQL+MERN)** 🔗: Used **apollo queries and mutations** for creating and deleting posts, likes, and comments. Used **JWT** with **Apollo Middlewares** for authorization. **Semantic UI** to build beautiful minimalist UI. Implemented **Private Routes** in react-router-dom **v6** and **custom hooks** .
- **Padhayi.ai** 🔗: The AI takes audio recording of your class, **summarizes(using NLTK)** the content and gives you a few questions to test your understanding. Wrote an algorithm which slices the audio into smaller chunks and uses **Google speech recognition API** to convert speech to text and summarizes the transcript. The AI internally uses **pre-trained models from HuggingFace Transformers** to generate questions from the audio transcript.
- **Customer Churn Prediction** 🔗: Applied Churn Modelling Problem using **ANN-Artificial Neural Network** and **Random Forest Classifier** models for predicting chances of a customer leaving telecom service based on 10+ parameters. Solved the problem of imbalanced dataset by using **SMOTE** which improved the **f1 score** from **58% to 92%.**
- **Business Sales Insights:** Built **interactive** Revenue Analysis and Profit Analysis dashboards. Data cleaning and **ETL** done with **SQL** . This analysis helped the Business identify their top customers, weak points and decline in profit by 1.75% etc. Added calculated fields, filters, **Dual axis combination** charts and various other plots in **Tableau** .
- **Google search clone** 🔗: Search for up-to-date results, news, images, and videos. Built a fully responsive modern UI with integrated **Dark mode** using **React** and **Tailwind CSS** . Implemented client-side using **react-router-dom** . Used **useDebounce** hook for debouncing fast changing search value. Deployed to **Netlify** cloud.

PROGRAMMING SKILLS

Languages: •Java •Python •JavaScript •C •HTML •CSS •SQL •R script
Tools: •Node.js •Express.js •React.js •TensorFlow •SkLearn •spaCy •Matplotlib •Streamlit •Tableau •Bootstrap etc.

ACHIEVEMENTS

- **6-star coder on HackerRank** in Problem-Solving with **Data Structures & Algorithms.**
- **Won** Hoya Hacks 2021; Track: domain.com. It was a 36-hour virtual Hackathon hosted by the **Georgetown** University.
- Open-Source contributor at **Script Winter of Code'21, GirlScript Winter of Code'21** and **HacktoberFest'21.**
- Mentor/Volunteer at **Major League Hacking** . Managing Hackathons and hosting Workshops.