Dev Kumar

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EDUCATION

ILLINOIS TECH [C

NIT CALICUT

® B-Tech Computer Science 7/17 - 6/21, Calicut, Kerela Cum. GPA: 8.25 / 10.0

SKILLS

PROGRAMMING

C • C++ • Java • Python • NASM

- CudaC++ OpenMP Pthread
- EXPL XSM CGAL OPENGL
- **Verilog** HTML CSS Javascript MongoDB Express NodeJS React

TECHNICAL SKILLS

Machine Learning • Object Oriented Programming • MySQL • SAP• GIT

POWER SKILLS

Problem Solving • Creativity

- Assertiveness Critical Thinking
- Teamwork

LINKS

Github://devthedevil LeetCode://dev_kumar_dklv GFG://devkumar9 Codechef://dev b170514cs Codeforces://dev kumar

CO-CURRICULAR

Conducted Hack-a-Holic for TechFest Tathva 2020 (LAMP Stack) Competitive Programming, Cricket, Gym

COURSEWORK

Machine Learning, Probability, Statistics Linear Algebra, Complex Analysis Design & Analysis of Algorithms, Data Structures and Algorithms, DBMS Computer Networks, Software Eng. Operating System, Compiler Design, Computational Geometry

EXPERIENCE

TATA STEEL | MANAGER IT PROJECTS, FULL STACK DEVELOPER Aug 2021 - July 2023 | WFH

- Was responsible for obtaining project requirements from the business (within Tata Steel), proposing a high-level design, and implementing the project.
- Designed & developed portal for Relocation of goods, Medical Reimbursement end to end in MERN(React for frontend, Node.is, Express for Backend) Stack.
- Comprise of a mail chain system, deleivers required mail at each step.
- Single handedly digitalised Learning and Development systems of Tata Steel like POST & PRE IRIS, School of Excellence, Coaching and Mentoring, Vocational Training of NOPRs, ECBS process by developing Web apps in MERN Stack.

PROJECTS

STRANGERS | MERN STACK, JQUERY, AJAX | Link | C Sourcecode

• Built a social media from scratch in which user can post, like, comment, chat anonymously, follow their friends using MERN stack.

MUSIC PLAYER |HTML,CSS,JAVASCRIPT | ☐ LINK | C Sourcecode

• Designed a web based music player with basic functionalities like play, pause, next, prev etc.

EXPERIMENTAL OPERATING SYSTEM | XSM, EXPL | Sourcecode 7/2019 - 11/2019 | Nit Calicut

- Developed a toy OS with basic features from scratch (2000 Lines of Code)
- Functionality Schedule Processes in OS, Allocate Resources, take Console Input and give Console Output, Disk Interrupt Handler, Exception Handler, Forking a process, support 16 Processes and 32 Semaphores etc.

HAND WRITTEN DIGIT PREDICTION | PYTHON | C Sourcecode

• Implemented a neural network from scratch in Tensorflow to predict a given digit by using MNIST dataset of handwritten digits from Kaggle.

TWITTER SENTIMENT ANALYSIS | PYTHON | C Sourcecode

- After text-preprocessing by NLP, implemented Naive Bayes Theorem & Laplace transformation from Scratch to predict the Sentiment of a user.
- By using US Airline Sentiment dataset.

Conducted Hack-a-Holic for TechFest GOOGLE STOCK PRICE PREDICTION | PYTHON | CONCUCTOR | C

• Used LSTM RNN and Keras, Tensorflow packages to predict next two month's stock price of Google. Dataset taken from Kaggle.

RESEARCH

Oct 2020 - Mar 2021 | Calicut, Kerela

Worked with **Dr. Jay Prakash** and **Dr. Sudeep K S** to create a recommendation system which has at least 7% more accuracy than naive recommendation system and do a comparison based study among available machine learning models by comparing their RMSE values on Netflix dataset.

PUBLICATION [[Paper Link]

[1] Dev Kumar, "Comparative study of movie recommendation system using feature engineering and improved error function," in: Proceedings of the 2021 IEEE Conference ISBN:978-1-6654-5047-8 DOI: 10.1109/INCOFT55651.2022.10094480

[Presentation Certificate]