Dev Kumar

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EDUCATION

NIT CALICUT
B-Tech Computer Science
7/17 - 7/21, Calicut, Kerela
Cum. GPA: 8.24 / 10.0

SHIVAM CONVENT
10+2 CBSE in Science
7/14 - 7/16 | Patna, Bihar
Cum. Percentage: 92.8/ 100

SHIVAM CONVENT
10th CBSE
7/10 - 6/14, Patna, Bihar
Cum. GPA: 10.0 / 10.0

SKILLS

PROGRAMMING
C • C++ • Java • Python • NASM • CudaC++ •OpenMP • Pthread • EXPL • XSM • CGAL • OPENGL• Verilog
Familiar:
HTML • CSS • Javascript

TECHNICAL SKILLS
Machine Learning • Object Oriented Programming • MySQL

POWER SKILLS
Problem Solving • Creativity • Assertiveness • Critical Thinking • Teamwork

LINKS

Github:// **devthedevil**
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 and Analysis of Algorithms,
Data Structures and Algorithms
DBMS, Computer Networks,
Software Engineering , Operating System,
Compiler Design, Computational Geometry

EXPERIENCE

TATA STEEL | MT Systems
Aug 2021 - Present | WFH

- Collaborated in a team of 4 on Product Devflows which aims to make project development reusable and convenient.
- Exposure:Technologies related to steel making, iron making like SAP PI/PO, SAP BODS, HANA etc.

PROJECTS

EXPERIMENTAL OPERATING SYSTEM | XSM AND EXPL
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. **[Link]**

HAND WRITTEN DIGIT PREDICTION | Python

- Implemented a neural network from scratch in Tensorflow to predict a given digit.
- By using MNIST dataset of handwritten digits from Kaggle.**[Link]**

TWITTER SENTIMENT ANALYSIS | Python

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

SEARCH ENGINE | JAVA

- Searches the keyword in the user's input in wikipedia pages and predicts top 10 results based on that keyword.
- By using wikipedia pages as dataset.**[Link]**

GOOGLE STOCK PRICE PREDICTION | Python

- Used LSTM RNN and Keras,Tensorflow packages to predict next two month's stock price of Google.
- Used Google Stock Price Dataset from Kaggle. **[Link]**

RESEARCH

NIT CALICUT | Researcher
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.

PUBLICATIONS

[1] Dev Kumar, Sudeep K.S, P. K.Singh, Jay Prakash, "Comparative study of movie recommendation system using feature engineering and improved error function," in: Proceedings of the 2021 IEEE WWW Conference (in progress) **[Link]**