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 & Analysis of Algorithms,
Data Structures and Algorithms, DBMS
Computer Networks, Software Eng.
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, 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 | 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 | 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.

SEARCH ENGINE | JAVA | Sourcecode
- 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.

GOOGLE STOCK PRICE PREDICTION | Python | Sourcecode
- Used LSTM RNN and Keras,Tensorflow packages to predict next two month's stock price of Google.
- Used Google Stock Price Dataset from Kaggle.

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]