Dev Kumar

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Education

- **Shivam Convent** 2014
  Matric 10 cgpa
- **Shivam Convent** 2014-2016
  10+2 92.8 percentage
- **NIT Calicut** 2017-2021
  B Tech 7.97 Current CGPA

Projects

- **Experimental Operating System(Student Course Project) | XSM AND EXPL**
  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, Forking a process, support 16 process, support 16 Processes and 32 Semaphore etc.
- **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.
- **Twitter Sentiment Analysis for US Airline Reviews | 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.
- **Prediction of net hourly electrical energy output in a Powerplant | Python**
  By performing multivariate regression using Stochastic Gradient decent algorithm from scratch.
  By using Combined Cycle Power Plant Data Set in UCI Repository.
- **Classification of flower types based on sepal, petal length and width | Python**
  Implemented a Decision Tree from Scratch to predict the flower type from a given flower.
  By using IRIS dataset from UCI Repository.
- **16 BIT RISC Processor(Student Course Project) | Verilog**
  Designed a 16- bit RISC Processor in Verilog based on the schematics of Hack Computer from the Elements of Computing Systems to implement a basic processor which computes the four most basic arithmetic operations.
- **Google Stock price prediction | Python**
  Used LSTM RNN and Keras,Tensorflow packages to predict next 60 day stock price of Google.
  Used Google Stock Price Dataset from Kaggle.

Coursework

- Machine Learning, Probability and Statistics, Linear Algebra and Complex Analysis
- Design and Analysis of Algorithms, Data Structures and Algorithms
- DBMS, Computer Networks, Software Engineering , Operating System, Compiler Design

Skill

- **Technical Skills**
  Machine Learning, Object Oriented Programming , MySQL
- **Power Skills**
  Problem Solving, Creativity, Assertiveness, Critical Thinking, Teamwork
- **Programming Languages**
  C++, Python, C, SQL, NASM, Verilog
- **Competitive Coder**
  Codechef 3 star rating(highest)
  Coforces
  Hackerrank

Interests

- Competitive Programming, Machine Learning

Hobbies

- Cricket, MMA

Activities

- Player in NITC MMA Team

Objective

I seek challenging opportunities where I can fully use my problem solving skills for the success of the organization.