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ADEPU ADARSH SAI

Academic Details

Year	Degree	Institute	CGPA/Marks(%)
2024	B.Tech Artificial Intelligence	Indian Institute of Technology Hyderabad	8.69
2020	XII (Telangana State Board of Intermediate Education)	Sri Chaitanya Junior Kalasala	96.3%
2018	X (Board of Secondary Education)	Sri Chaitanya Techno School	9.3

Projects

- **Hand written Digit generation :**

Based on the MNIST data set, implemented a Conditional Generation Adversarial Network to generate handwritten digits using *pytorch.*

- **Conditional Face Aging:**

In this project, an Age-cGAN (Age Conditional Generative Adversarial Network) model is trained to synthesize high quality face images of one person at different ages while preserving the original person's identity in the aged version of his/her face.

- **Titanic - Machine Learning from Disaster:**

The goal of the project was to predict the survival of passengers based off a set of data using Linear Regression. The data was taken from Kaggle competition "Titanic: Machine Learning from Disaster" to learn and evaluate accuracy of the model.

- **Is the Driver at Fault? :**

Built a binary classifier using XGBRegressor, trained on data procured from a government agency, to predict whether the driver involved in the accident is at fault or not.

- **Image Classifier:**

Implemented each of the components of a convolutional neural network (CNN) from scratch, including backpropagation. Using this network built an image classifier trained on MNIST dataset.

- **Visualizing data using t-SNE:**

Implemented "t-SNE" algorithm that visualizes high-dimensional data by giving each data point a location in a two or three-dimensional map. (Inspired from the original paper on t-SNE)

- **Classifying names with a GRU:**

In this project, a simple Recurrent Neural Network (RNN) with a GRU is trained to classify names according to their language using an (unbalanced) dataset consisting of about 20,000 names in 18 languages.

Skills

- **Programming Languages:**

C, C++, Python, Prolog, SQL, LEX

- **Libraries:**

PyTorch, Pandas, Matplotlib, NumPy, SciPy, CvxPy, Scikit-Learn, Keras.

- **Software:**

Latex, Ngspice, Solid Edge

Relevant Courses

- **Computer Science courses**:

Data Structures, Algorithms, DBMS - I&II, Discrete Math, Introduction to Programming, Compilers 1.

- **AI courses:**

Deep Learning, Foundations of Machine Learning, Artificial Intelligence, Programming for AI, Intro to AI.

- **Math courses:**

Probability and Random Variables, Applied Statistics, Linear Systems and Signal processing, Matrix Theory, Vector Calculus, Convex Optimization, Introduction to Metric Spaces.

- **Computer Science courses**:

Data Structures, Algorithms, DBMS - I&II, Discrete Math, Introduction to Programming.

Scholastic Achievements

- Achieved AIR 2054 in JEE-Advanced 2020 examination
- Achieved AIR 1734 in JEE-Mains 2020 examination
- Achieved State Rank 225 in TS EAMCET 2020 examination

Extracurricular

- Part of National Sports Organization (NSO) - Lawn Tennis
- Hobbies: Cricket, Badminton, Chess, Guitar