Mihir Srivastava

Bachelor of Technology in Computer Science
Specialization in Artificial Intelligence and Machine Learning
Galgotias University, Greater Noida

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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Galgotias University, Greater Noida	7.19	2020-2024
Senior Secondary	R.S Uchh Vidyalaya, Navada	73%	2019
Secondary	PVSS DAV Public School, Koderma	08	2017

EXPERIENCE

- **Ready Coder** *June 2023 - September 2023*
  Data Science Intern Remote

  – Implemented a hands on Brain Tumor Classification CNN project and also build an interactive dashboard!
  – Used CNN with Conv2D layers to classify tumor vs. non-tumor images in MRI scans.
  – Compiled model with categorical cross-entropy loss and Adamax optimizer for optimal performance.

PROJECTS

- **Built Neural Networks from Scratch in Python** *2020-24*
  Deep Learning Project **Github**

  * Coded Neuron, Layers, Multiple NN Layers, NN Activation Function, 1NN Forward Pass,Cross Entropy Loss.
  * Coded Backpropogation in 1 Single Neuron, through entire Layer of Neuron, on Relu Activation Class, on Cross Entropy Loss Function, Combined BP on Softmax and Cross Entropy Loss, Built Entire BP Pipeline for NN.
  * Coded Entire NN F.B pass, Optimizer, ADAGRAD Optimizer, RMS Prop Optimizer, ADAM Optimizer.

- **Building Large Language Models (LLMs) from Scratch(Ongoing)** *2020-24*
  Generative AI Project **Github**

  * Coded an LLM Tokenizer from Scratch in Python, Implemented Byte Pair Encoding(BPE) in Python, Coded input-output pairs in Python, Implemented DataLoader in Python, Coded Embedding Weight Matrix
  * Coded a Simplified Attention Mechanism, the Self Attention Mechanism, Causal Self Attention Mechanism, Multi Head Attention from Scratch in Python
  * **Ongoing**- Coding of the entire LLM Transformer block, Coding of the 124 million parameter GPT-2 model

- **Fashion MNIST Dataset Classification using Keras** *2020-24*
  Neural Network Project **Github**

  * Implemented a neural network to classify images of clothing from the Fashion MNIST dataset.

- **California Housing Regression using TensorFlow** *2020-24*
  Neural Network Project **Github**

  * Created a regression model to predict housing prices in California using TensorFlow.

TECHNICAL SKILLS

–**Programming Languages**: Python, MATLAB, SQL, HTML, CSS
–**Libraries/Frameworks**: NumPy, Pandas, PyTorch, TensorFlow, Keras
–**Artificial Intelligence**: Machine Learning, Reinforcement Learning and Natural Language Processing.
–**Version Control**: Git

KEY COURSES TAKEN

–**CSE & Maths**: Discrete Mathematics, Calculus, Linear Algebra, Differential Equations, Data Structures, Probability and Statistics, Theory of Computation, Foundations of Data Science, Numerical Analysis in MATLAB, Machine Learning, Reinforcement Learning, Optimization, Design & analysis of Algorithms, Database Management System, Artificial Intelligence