Akshay Gupta

SOPHOMORE UNDERGRADUATE · COMPUTER SCIENCE AND ENGINEERING
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EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY KANPUR (IITK) — Kanpur, India
Bachelor of Technology in Computer Science and Engineering — July 2019 - Present
Cumulative Performance Index(CGPA): *9.43/10*

SAYYID HAMID SENIOR SECONDARY SCHOOL(BOYS) — Aligarh, India
12th Grade — May 2016 - May 2018
Aligarh Muslim University Board: *91.6%*

R.R.K SENIOR SECONDARY SCHOOL — Chandausi, India
High School — May 2014 - May 2016
Central Board of Secondary Education: *10 CGPA*

PROJECTS

MODEL ZOO [Code] — IITK Kanpur, India
Programming Club,IITK — May 2020 - July 2020
- Implemented 4 Deep learning model using **Tensorflow** and **Keras** related to Computer Vision and Natural language Processing.
- Models include **Context-Encoder** for Image Inpainting ,**WGAN** for Image Generation , **BILSTM-CRF** for NER and **ResNet18**.
- Achieved an accuracy of **88%** on ResNet18 Bottleneck achitecture and **99.91%** accuracy on NER BILSTM-CRF.

REAL TIME SUDOKU SOLVER [Code]
Self Project
- A Real Time Sudoku Solver is built with **OpenCV** for Image Processing and **Tensorflow** for Digit Recognition Task.
- Achieved an accuracy of **99.92%** in Digit Recognition Model Using **MiniVgg** on MNIST dataset.
- Implemented **Solving Every Suduko** Algorithm from scratch in Python for the purpose of Solving parsed Sudoku.

POPCORNTIME
Self Project
- Infotainment app developed using **MERN Stack** providing information related to Latest and Most Popular Movies.
- Integrated **MongoDB Sandbox** Cloud Cluster on **AWS** for Information Collection and wrote queries on Server side
- Wrote **Proxy** and **CORS** settings during Development phase as Middleware and many Schemas using **Mongoose**.

AI-T3 [Code]
Self Project
- Implemented Tic Tac Toe Game in **JavaScript** from scratch **without** any third party dependency deployed with Heroku.
- **Enhanced User experience** by developing both Human vs Human and Human vs Computer mode of Game.
- Implemented **Min Max Algorithm** from Game theory with suitable evaluation function is used for Computer decisions.

KALAM
Self Project
- Built a Personal Blogging app using **Django** and **Bootstrap**.
- Used Dynamically built **Sitemaps** for Search Engine Optimization and **RSS feed** for Subscription.
- Integrated **PostgreSQL** for trigram searching functunality and Database.

SKILLS

- **Programming Languages:** C, C++, Javascript, Python, SQL(MYSQL)
- **Deep Learning Framework:** Keras, Pytorch, TensorFlow
- **Data Science Libraries:** NLTK, NumPy, OpenCV, Pandas, Pyplot, Spacy,
- **Utilities:** Bash, Git, LibreCad
- **Web:** Bootstrap, Django, Express, HTML5, MongoDB, Node.js, React, REST API

COURSE WORK

- Real Analysis and Multivariate Calculus
- Fundamentals of Computing
- Linear Algebra and Ordinary Differential Equation
- Introduction to Electronics*
- Discrete Mathematics*
- Data Structure and Algorithms*

*Currently Pursuing

MOOC:
- Deep Learning Specialization
- Introduction To Machine learning
- Algorithmic Toolbox