Utkarsh Patel

3rd Year Undergrad

 utkarsh512 utkarshiitkgp

 utkarshpatel@iitkgp.ac.in

 +91-95-4762-1111

INTERESTS

Deep Learning & Neural Networks · Algorithm Design · Graph Theory · Analog Circuit Design

EDUCATION

- **Indian Institute of Technology Kharagpur** — Kharagpur, India
  Candidate for Bachelor and Master of Technology (Dual Degree) — *Jul 2018 - Present*
  - **Major**: Electronics & Electrical Communication Engineering — CGPA 9.54 / 10.0
  - **Minor**: Computer Science and Engineering — CGPA   10.0 / 10.0

- **Shah Faiz Public School** — Ghazipur, India
  Central Board of Secondary Education
  - **Higher Secondary**: 94.8% — May 2017
  - **Secondary**: CGPA 10 / 10 — May 2015

COURSE PROJECTS

- **Cat or Not** 	deeplearning.ai
  Deep Learning application on Image Classification Problem	*Jul 2020*
  - Built a deep neural network to classify images as a cat image or a non-cat image.
  - Coded the **Forward Propagation** and the **Backward Propagation** from scratch to train the model.
  - Used **Stochastic Gradient Descent** algorithm to get optimal weights and biases.
  - Achieved **80%** accuracy on test set after training the model.

RELEVANT COURSEWORK

- **Computer Science**:
  Algorithms (+ lab), Programming and Data Structures (+ lab)
- **Deep Learning**:
  Neural Networks and Deep Learning*
- **Electronics and Communication Engineering**:
  Digital Speech Processing, Analog Electronics (+ lab), Signals & Systems, Semiconductor Devices (+ lab), Electromagnetic Engineering
- **Mathematics**:
  Graph Theory*, Probability and Stochastic Processes, Matrix Algebra

*#ongoing courses, *courses completed online with assignments*

SCHOLASTIC ACHIEVEMENTS

- 2020: Department rank 1 among 53 dual degree students at the end of 4th semester.
- 2017: Secured 2nd position in the district in All India Senior School Certificate Examination.

TECHNICAL SKILLS

- **Programming Languages**:
  Python, C/C++, Octave, MySQL
- **Libraries / Frameworks**:
  TensorFlow, PyTorch, sklearn, Pandas, NumPy, MatplotLib, PIL, SciPy
- **Softwares / Platforms / OS**:
  Google Cloud, MATLAB, LTSpice, Jupyter, Git, LaTeX, Windows, Ubuntu