

ABHAY MISHRA

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Education

Year	Degree	Institute	CPI/%
2019 -	B.Tech.(Computer Science Engineering)	Indian Institute of Technology Kanpur	7.8/10.0
2019	Class XII (CBSE)	JNV Bundi, Rajasthan	97%
2017	Class X (CBSE)	JNV Sidhi, Madhya Pradesh	10.0/10.0

Academic Achievements

- Achieved All India Rank **387 (99.8 percentile)** in **JEE-Advanced 2019** (May '19)
- Secured All India Rank **893 (99.9825 percentile)** in **JEE-Mains 2019** (Apr '19)
- Qualified for **KVPY** fellowship award with All India rank **531** in SX stream (2018-19)
- Secured **98.66 %** aggregate in Physics, Chemistry, and Maths in **Class XII** exams (2019)

Projects

Introduction to Artificial Neural Networks(ANN) (May'20-June'20)

Mentored by Programming Club, IIT Kanpur

Github

- Learned about **linear and logistic regression**. Used **gradient descent algorithm** for the optimization. Experimented with simple **classification** tasks using these simple methods.
- Applied deep learning methods for **binary and multi-class classification**.
- Build a **Digit Recognition** model based on **convolution neural net (CNN)**. Trained over **60000** images successfully and tested over **10000** images. Overall accuracy was $\approx 97\%$
- Implemented **Simple autoencoders** and **Convolution autoencoders** using **MNIST** dataset.Learned the **hidden representation** of images in **latent space** and later used it for **denoising** of images
- Obtained **word embedding** for use in Natural language processing using **word2vec** algorithm based on the **skip-gram architecture** .Developed a **Seq2Seq** model as an effort to understand **Character level models** in Natural language processing.

Networking

(Jan'20-Feb'20)

Association Of Computing Activities, IIT Kanpur

- Worked with **Linux tools** and **bash scripting**
- Learned about **network protocols** and corresponding setup of **virtual local area network**
- Studied **network address translation**, **proxy setup** and **cisco router configuration**

Technical Skills

- Programming Languages** : C, C++, Python, Bash * Exposure
- Machine Learning** : PyTorch, Pandas, Numpy, TensorFlow*
- Web Development** : HTML5, CSS3, JavaScript*
- Utilities & OS** : Git, L^AT_EX, Windows, Linux, MS Office

Position of Responsibility

Student Guide, Counselling Service, IIT Kanpur

(Nov'20 - Present)

- Took charge of 5 freshmen and helped them in getting accustomed with the new environment
- Provided support in various academic and non-academic matters

Relevant Courses

Data Structure And Algorithms	Discrete mathematics
Software development and Operations*	Computer organization*
Introduction to Electronics	Real Analysis and Multi-variable Calculus
Linear Algebra and ODE	Logic*

* Ongoing courses

Interests and Hobbies

- Competitive Programming : Compete in coding contests hosted on Codeforces (mabhay)
- Music : Listen to all kind of music in different languages
- Sports : Play table tennis and squash