

Ashuman Mishra

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EDUCATION

- **National Institute of Technology , Warangal** Telangana, India
Bachelor of Technology - Electronics & Communication Engineering; GPA: 8.89 *July 2019 - 2023*

SKILLS SUMMARY

- **Languages:** Python, C++, JavaScript, SQL, Dart, JAVA
- **Frameworks:** PyTorch, TensorFlow, Keras, Django, Flutter, NodeJS
- **Tools:** Git, VCS & GitHub , SQL, VS Code
- **Platforms:** Linux, Web, Windows, Android , iOS , AWS, Microsoft Azure
- **Soft Skills:** Event Management, Public Speaking, Time Management, Project Management and Planning, Ideation

COURSES

- **Deep Learning Specialization** Coursera
deeplearning.ai *March - June 2020*
 - **Neural Networks:** Learnt to build, train, and apply fully connected deep neural networks; implementing efficient (vectorized) neural networks
 - **Improving DNN : Hyperparameter Tuning, Regularization and Optimization:** Learnt and applied concepts dropout regularization, hyperparameter tuning, batch normalization, and gradient checking; implemented a variety of optimization algorithms, such as mini-batch gradient descent, Momentum, RMSprop and Adam, and check for their convergence
 - **Structuring Machine Learning Projects:** Learnt how to build a successful machine learning project and get to practice decision-making as a machine learning project leader.
 - **Convolutional Neural Networks :** Learnt to build a CNNs, including variations such as ResNETS , Inception Nets; applied CNNs to visual detection and recognition tasks; and used neural style transfer to generate art and apply these algorithms to a variety of image, video, and other 2D or 3D data.
 - **Sequence Models:** Trained Recurrent Neural Networks (RNNs) and variants such as GRUs and LSTMs; applied RNNs to Character-level Language Modeling; gained experience with NLP and Word Embeddings; and use HuggingFace tokenizers and transformer models to solve different NLP tasks such as NER and Question Answering.
- **Algorithms & Data Structures** Coursera
UC (San Diego) *July - Aug, 2020*
 - **Algorithmic Toolbox:** Created project based course using Unsupervised learning and natural language processing.
 - **Data Structures:** Created tutorial for Q-learning RL algorithm and concepts.

PROJECTS

- **Vision Transformer - (Paper Implementation #Vision):** Research oriented, open source, Research paper implementation & Link. Tech: Python, PyTorch (BTech 3rd year) **CODE**
- **UNiT : Multimodal Multitask Learning with unified Transformer (Paper Implementation #Vision #nlp):** Implemented paper from Scratch with modification to make it work for computer vision Tech: Python, PyTorch (BTech 3rd year) **CODE**
- **YOLO 2 (Paper Implementation #Vision):** Object detection algorithm , implemented YOLO 2 paper from scratch Tech: Python, Tensorflow (BTech 1st year) **CODE**
- **Neural Machine Translation Transformer (#nlp):** English to German Translation , coded model from Scratch, Tech : Python , PyTorch (BTech 3rd year) **CODE**

PUBLICATIONS

- **Package : BERT and GPT 2 based Transformer Architecture Package):**
Homepage:PyPi Colaboratory : **Demo**

HONORS AND AWARDS

- Hackon with Amazon National Top 10
- ECEA Techflix Ideathon Winner , NITW
- Institute Merit Scholarship Holder(twice)
- KVPY SA 2017 Fellow [by Govt of India IISc Bangalore]
- Class X BoardTopper(Awarded 1L Cash by CM, UP)

VOLUNTEERING EXPERIENCE

- **Additional Secretary at Big Data Analytics and Consulting Cell** NITW
Conducted online technical & soft-skills training, Workshops impacting over 200 students *Sep 2020 - Present*
- **Developer at Nevronas , Student ML group** NITW
Worked on Computer Vision and NLP related projects *Aug 2020 - July 2021*