



# Amit Kumar Gupta

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About me: "Only a fool learns from his own mistakes. The wise man learns from the mistakes of others." ~ Otto von Bismarck I always remain in a state to increase the thirst for knowledge. Artificial intelligence is a fast changing field. I believe complete learning is when learning combines with real time applications. I always prefer discussions over the new developments in the field of AI, which not only accelerates the learning process but also improves my outstanding interpersonal skills.

## ● WORK EXPERIENCE

CURRENT – India

**PROJECT INTERN** – INEURON.AI

**Project: Deep EHR(Electronic Health Record): Chronic Disease Prediction Using Medical Notes**

Objectives: Early detection of any preventable diseases is important for better disease management, improved interventions, and more efficient health-care resource allocation. We have seen since past decade we witnessed a sky-rocketing increase of information in Electronic Health Record(EHR) systems. Structured patient information like demographics, disease history, lab results, procedures and medications. By our project we can detect the diseases.

28/03/2020 – 30/04/2021 – India

**AI TRAINEE** – APPLIEDAI

- Worked on **Data Analysis using Python( Matplotlib and Seaborn) and SQL.**
- Implemented Machine Learning algorithms such as **Logistic Regression and Linear Regression from scratch** on smaller dummy dataset.
- Implemented and optimized Machine Learning algorithms such as SVMs, Decision Trees and ensembles models using **scikit-learn** library.
- Collaborated on conversion of couple of research papers into codes such as **U-Net for image segmentation and Attention all you need for Machine Translation.**

16/11/2017 – 21/07/2019 – Bengaluru, India

**PROGRAMMER ANALYST** – COGNIZANT TECHNOLOGY SOLUTIONS PVT. LTD.

Technology: **Java, MySql, Siebel(CRM), ServiceNow**

Task: I was mainly responsible for handling client customer's tickets on ServiceNow. Updating, deleting and addition of customer's information was the major task on a normal day. In addition to this I also handled the refreshing the servers on weekly basis.

## ● EDUCATION AND TRAINING

01/10/2019 – CURRENT – Adolf-Reichwein-Straße 2, Siegen, Germany

**M.SC** – Universität Siegen

- Focus on Artificial Intelligence and Computer Science.
- Expected completion: 12/01/2021

**Field(s) of study**

- Mechatronics

<https://www.uni-siegen.de/>

17/06/2013 – 10/05/2017 – Bhubaneshwar, India, Bhubaneshwar, India

**B.TECH(MECHANICAL ENGINEERING)** – KIIT University, India

<https://kiit.ac.in/>

## ● PROJECTS

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06/04/2021

**Master Project(Student-arbeit)**

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[https://github.com/GuptAmit725/Master\\_project](https://github.com/GuptAmit725/Master_project)

Project: **To automate the Pneumonia detection in a CXR and highlighting the effected lobe of the chest which is most effected.**

Technology used: **Transfer Learning using ResNet50 and few convolutional and Dense layers.**

Sometimes detecting a Pneumonia in a CXR images are real challenge and time taking process for someone who is novice in the field of medicine. So it would be a great help for the person to automate the process of preliminary diagnosis. This will help in better management of resources in the right direction. Apart from automating the diagnosis process my project is also capable of showing//explaining the effected half and effected lobe in the CXR. This will be a great help for the patient to understand what went wrong in the CXR properly.

**Personalized Cancer Diagnosis(Code to Deployment)**

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<https://gene-mutation.herokuapp.com/>

Description: **Given the gene information the model predicts the chance of getting cancer with the mutations.**

**Technology used: Python,Heroku, Jupyter Notebook, PyCharm, Flask, HTML/CSS ,Heroku**

Dataset source : <https://www.kaggle.com/c/msk-redefining-cancer-treatment/data>

Github Link: [https://github.com/GuptAmit725/Genetic\\_Mutation](https://github.com/GuptAmit725/Genetic_Mutation)

## ● DIGITAL SKILLS

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### Data Analysis

NumPy | Pandas | Matplotlib | Seaborn

### Programming

Python | C++ | R | SQL

### Deep Learning

Long Short Term Memory (LSTM) | Convolutional Neural Networks (CNN) | Transfer Learning | Tensorflow | Encoder-Decoder(with attention) | BERT | Pytorch

### Machine Learning

Logistic regression | SVM | Ensemble Models | scikit-learn

### Tools

PyCharm IDE | VS Code | Tableau (data analysis)

## ● LANGUAGE SKILLS

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**Mother tongue(s):** HINDI

**Other language(s):**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C1	C1	C1
<b>GERMAN</b>	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user