

AAYUSHI GUPTA

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DEEP LEARNING ENGINEER

I am a dynamic and result-oriented machine learning professional with 4+ years of experience in data science and analytics and demonstrated history of working in the information technology industry. Skilled in Machine Learning, Python (Programming Language), Statistical Data Analysis, and Natural Language Processing (NLP), Apache Spark and SQL. Strong engineering professional with a master's degree focused in ME in Big Data and Data Analytics from the School of Information Sciences, Manipal. I accept the core value of hard work, innovation, and inventiveness to deliver on time. Being a hands-on team player, I give strong focus on process improvements, communication, and team building.

WORK EXPERIENCE

Company: **Cognizant-Gurgaon, India**

Data Scientist

Aug 2021 – Present

Responsibilities:

- Working as a data scientist.
- Working on building a literary search engine using generative AI and knowledge graph techniques.
- Participates in daily scrum ceremonies and pro-actively got involved in leading stand-ups and agile meetings.
- Developed a model which categorizes medical Information response into on-label or off-label enquiry using generative AI algorithm (GPT-3) and Lang chain framework.
- Developed a statistical application which detects movies as anomaly based on percentage change in pre and post release sales.
- Developed a minimum viable product that detects breast cancer and the affected area deployed on AWS (Sagemaker, S3, EC2).
- Developed an algorithm which detects failures while compiling movies data across different platforms.
- Developed a model that predicts credibility of customer to issue a credit card.
- Developed a model that predicts credit limit to be assigned to a customer.

Company: **Springboard, India**

Student

AI/ML Track - Hands on

May 2019 – April 2020

- Developed a machine learning model that predicts hotel rating based on User Reviews and hotel Price using natural language processing and deep learning framework (keras). Deployed this application using docker (cloud platform).
- Worked on mini projects covering topics such as Data collection via APIs, Data wrangling in Pandas, JSON, SQL at scale with Spark, Data wrangling with Spark, Inferential Statistics, Probabilistic programming case study, Linear regression, Logistic regression, Tree-based algorithms, Scaling with SparkML, NLP case study, Image processing case study.
- Worked on home challenges about time-series and exploratory data analysis by different companies such as Relax Inc and Ultimate Technologies Inc.

Company: **Meddiff Technologies- Bangalore, India**

Software Development Engineer (Machine Learning engineer)

July 2018 – July 2021

Responsibilities:

- Worked as a machine learning engineer and web developer.
- Participated in daily scrum ceremonies and pro-actively got involved in leading stand-ups and retrospective meetings.
- Participated in high level designing, low level designing and risk management discussions
- Developed an analytical dashboard that analyses visualize, summarize and monitor various data obtained through multiple RIS-PACS from various hospitals.
- Developed and tested neural network that classifies lungs as normal or abnormal when DICOM images from modality PACS are received.

Company: **Meddiff Technologies– Bangalore, India**

Data Science Intern

May 2017 – June 2018

Responsibilities:

- Developed machine learning model that classifies radiology reports as normal and abnormal. Using this model, DICOM images stored in PACS are segregated to normal and abnormal images to be used as label for Chest X-ray classification.
- Developed machine learning model that is used to convert scanned medical document to text, the converted text is used in radiology report search engine that allows the radiologist to search the reports using natural language queries.
- Developed machine learning model that takes DICOM images from PACS and classifies these images as the organ of the body.

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Company: IBM– Gurugram, India

Project Intern

June 2015 –August 2015

Responsibilities:

- Took an overview of tools, various solutions and IT Applications managed by IBM for Airtel Sri Lanka.
- Developed online complaint management system (web portal) for Airtel using java and J2EE.

TECHNICAL SKILLS

Languages: Python, R, Java, C++, C

Databases: MySQL, Neo4J, Mongo DB

Analytics Frameworks: NumPy, Pandas, Scikit-learn, NLTK.

Generative AI Frameworks: Lang chain, OpenAI, Llama-Index

Deep-learning Frameworks: Keras, TensorFlow, PySpark (basic)

Web Frameworks/Languages: HTML, CSS, jQuery, Flask, Django

Cloud Platforms: Amazon web Services, Docker

Version Control tools: Smart-Git, Tortoise Git

Skills: Machine Learning (XGBoost, Neural Networks, other ML models), Large language models, NLP, tesseract-OCR

EDUCATION

- School of Information Sciences, Manipal
(Master of Engineering) | Big Data & Data Analytics | GPA: 9.1/10 **Aug 2016 –July 2018**
- Bk. Birla Institute of Engineering and Technology, Pilani
(bachelor's in technology) | Computer Science| PERCENTAGE: 85% **Aug 2012 – May 2016**
- Springboard, Bengaluru
(Certification course) | Artificial Intelligence Career Track **May 2019 –April 2020**

PROJECTS

- **Classification of wikipages into Diseases and Disorders**: Developed machine learning model that classifies wikipages into disease page or disorder page and measured the performance of algorithm using performance and goodness metrics against given ground truths. Implemented using Python's Sklearn, Scikit, NumPy and Matplotlib packages.
- **Clustering of Blog posts**: Applied data wrangling technique such document term frequency to generate document term matrix and applied further agglomerative approach technique(K-means) to build clusters. Implemented using Python's Sklearn, Scikit, NumPy and seaborn packages.
- **Analysis of newspaper content (THE HINDU)**: Extracted the data from front page of the Hindu newspaper by extracting the given URLs using CURL. Converted it to readable format and calculated the word frequencies using TF-IDF. Applied NLTK and word cloud to generate word cloud from word frequencies.
- **E-Bug Tracking system**: Developed and tested web application developed using JAVA for product companies.
- **Functional blocks for webserver using Microhttpd Library**: Developed and tested web application developed in C programming language using Microhttpd library.

PUBLICATIONS

- **Aayushi Gupta, Anupama C, Indumathi P and Anuj**, Classifications of chest X-ray images as normal or abnormal using ML algorithm, *Asian journal of convergence in technology*, volume IV Issue I, ISSN No:2350-1146.

HACKATHONS

- **JOB-A-THON** – Analytics Vidhya Hackathon '21: Developed a model to predict whether the person will be interested in their proposed Health plan/policy, given the information about demographics (city, age, region etc.) information regarding holding policies of the customer recommended policy Information.
- **JOB-A-THON** – Analytics Vidhya Hackathon -MAY 21: Developed a model to identifying customers that could show higher intent towards a recommended credit card given the Customer details (gender, age, region etc.) and details of his/her relationship with the bank (ChannelCode, Vintage, AvgAsset_Value etc.).

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FELLOWSHIP

- Participated in Alphaa AI Fellowship Program which is an initiative under "The Citizen Data Scientist Project" where learned the art of data storytelling by building various responsive dashboards using Excel and its tools and also learned to solve different business problems along with 10-12 fellows from different countries.