Apoorve Gupta

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WORK EXPERIENCE

SAMSUNG RESEARCH INSTITUTE | Software Engineer (2021)   Bengaluru,India
- Worked with Samsung Ads team on Advertisement Pipeline Auctioning Mechanism.

SAMSUNG RESEARCH INSTITUTE | R&D Intern (2021)   Bengaluru,India | (6M Intern)
- Co-Developed a real-time data pipeline to process semi-structured data by integrating categorization of Advertisements and identifying any Ads which cause any policy violations or are of Malware Type from various DSPs using various **AWS Tools like S3 Bucket and Lambda** and **Python 3**.
- Adopted **Test Driven Development** and wrote unit tests using **PyTest** achieving 93% coverage.
- Exploring the existing Data Pipeline for the Ads and methods to make it more robust and scalable by increasing the auto-reviewing using **AWS (Amazon Web Services)** and **GCP (Google Cloud Platform)**.
- Developed a Model to recommend similar geolocations based on a given query geolocation using **Taste Knowledge Graph** and **BERT** Modelling techniques with different similarity measures deployed on **Uvicorn** server using **FAST API**.

DUN & BRADSTREET | Data Science Intern (2020)   Chennai,India | (3.5M Intern)
- Developed a **Delinquency Model** for Predictive analysis of Natural Disaster on Business of Companies.
- Created a Classification Model Using Machine Learning Classification Algorithms like **XGBoost** and **LightGBM** and by tuning the hyperparameters to get maximum efficiency in the classification of businesses into separate classes.
- Scraped Data from URLs, PDFs, and Text Files using **BeautifulSoup**, **PDFMiner**, and converted them to structured data and did detailed analysis.
- Build an Emotion Classification Model to identify and Classify the Emotions of the Crowd in a Football match using **OpenCV** and a Deep Learning **MobileNet Model**.
- Involved in complete Life Cycle including Analysis, Design, Development of **Natural Language Processing Model** for Calculating ESG Count and **Sentiment Analysis** of Sentences Scraped from 10K Filings of Companies using **BeautifulSoup**, **Latent Dirichlet Allocation**, **Word2Vec, POS Tagging,Phraser, and BERT Modelling** Techniques.

ERNST & YOUNG | Software Development Intern(2019)   Gurugram | (2M Intern)
- Involved in complete Life Cycle including Analysis, Design, Development. Interfaces for connecting web services Building web applications with **ASP.NET MVC/WebForms, JavaScript, JQuery, HTML, CSS**.
- Worked closely with clients to establish problem specifications and system designs.
- Applied **OOPs concepts, C#, ADO.NET, Entity Framework**, namespaces in designing and development of the application.

EDUCATION

BTech In Computer Science and Engineering   Bengaluru,India | Aug 2017 - Aug 2021
Specialization in Data Science ,PES University,Bengaluru

CERTIFICATIONS

Deep Learning Specialization (**DeepLearning.ai**)   May 2019
Data Science Specialization (**John Hopkins University**)   Aug 2019
IBM Data Science Professional (**IBM**)   Nov 2019
Machine Learning (**Microsoft**)   July 2018

PROJECTS

DeepEmoji
- Recognizes the facial emotion and overlays emoji equivalent to the emotion, on the subject's face using Convolution Neural Networks and OpenCV.
- Top 10 Projects in DotSlash Hackathon by HP held in PES University.

Make-A-Poll Website
- It is a responsive website where anybody can create polls,vote on them and analyse the results.
- Key features include option to set limit,option to set a limit on the number of polls,Similar Poll Suggestions,live preview of voting through interactive pie charts.
- Technologies used were Flask,MongoDB ,CSS and MeaningCloud API.

My Notepad
- Developed customized text editor in Python Language just like the regular plain text editor but with some additional features like:
    - Functions similar to any other plain text editors.
    - Shows Line Number.
    - Highlights the current line.
    - Shows cursor location at the bottom.
    - 7 different themes available to choose.

SQL Engine Using Hadoop
- SQL Engine Implemented on Hadoop using Big Data Technologies with an aim to mimic Hive.
- Functionalities involved - select,project,load,min,max,sum,where.

ACHIEVEMENTS
- Qualified CodeChef SnackDown Qualification Round 2020 | Online
- Winner of Hackwell 2.0 conducted by Honeywell

PUBLICATIONS

"Speech Emotion Analyzer",Lecture Notes on Data Engineering and Communications Technologies,Springer Nature,2021