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EDUCATION

Columbia University

M.S. in Computer Science

New York, NY

Sep 2019 — Dec 2020

G.G.S Indraprastha University

B.Tech. in Information Technology

New Delhi, IN

Aug 2014 — Jun 2018

SKILLS AND RELEVANT COURSEWORK

Languages	Python3, GoLang, Java, C++, JavaScript, JQuery, HTML, CSS
Libraries	Pandas, SK-Learn, NumPy, NetworkX, iGraph, OpenCV, Keras, TensorFlow,
Frameworks	Bootstrap, Flask, Django, NodeJS, VueJS, AngularJS, ReactJS
Database	MySQL, MongoDB
Coursework	Algorithms, Data Structures, Databases, Artificial Intelligence, NLP, Operating Systems, Advance Spoken Language, Cloud Computing, Applied Deep Learning, Computation & Brain

EXPERIENCE

MathWorks

Boston, MA

Software Developer

May 2020 — Aug 2020

- Created **Data Feed Pipeline (NoSQL)** to fetch MathWorks' Traffic and Security metrics using **GoLang**
- Developed a **serverless architecture with AWS Lambdas** and performed analysis on gathered Traffic Data
- Worked through the **elicitation, architecture and system design** phases of the project in a **CI-CD** lifecycle
- Developed the **front-end on Vue.JS** for **dynamic rendering** on a static loader (**AWS S3**)

inVoid Technologies

New Delhi, IN

Software Developer

Jan 2019 — Apr 2019

- Developed and integrated compnay's Facial Recognition System in a desktop application using **Java**
- Developed **Cloud APIs AWS EC2, Apache, Flask** to integrate with web, mobile, and desktop based clients.
- Programmed image scraper (**Selenium**) to enhance the Data Pipeline (Cleanup, Normalization, Feature Reduction)
- **Handled cloud server AWS(EC2) packet drops (from 70% to 1.5%)** using SupervisorD (Linux)

Manav Rachna Innovation & Incubation Center

Haryana, IN

Software Developer

May 2017 — May 2018

- Developed and deployed (**REST APIs**) for an attendance software using **Django and MySQL**
- Developed **Full-Stack-Web Framework** for an automatic drink disposal machine (**NodeJS-Loopback**)
- Designed **interface along with API** for IoT based product and performed data analysis and prediction
- Worked on **Google Cloud Platform** tools to deploy the servers and manage remote database architectures

PROJECTS

Take a Break, Grab a 'Cookie' (Windows Native App)

July 2020 — July 2020

- Built a 'Get a Break Reminder' *Windows App using C# on .NET Framework* that sends notifications and controls screen brightnes as per the timer. Qualieified under **Top-20 teams** for MathWorks HackDay finalists amongst 100+ teams from MathWorks.

Spoken Emotion Analysis

February 2020 — March 2020

- Categorized and analyzed different speech recordings under different emotions (Fear, Angry, Disgust, Neutral, Happy, Sad, Astonished) using *Praat, ParselMouth and Python3*

Dialogue Act Recognition

March 2020 — April 2020

- Using feature sets, extracted from the phone call transcriptions *trained a machine learning classifier* to identify and *predict the 10 most frequent dialog acts*

Emotion Recognition in Speech

April 2020 — May 2020

- Extracted speech-prosodic features using *Praat, and openSMILE to train a random forest classifier* for predicting the emotions of the given speech recording

Columbia Sculpture Classification

January 2020 — February 2020

- Developed a *custom CNN to classify the sculptures at Columbia campus*, such as Alma Mater, Columbia Lion, etc.

Smart Door Authentication System

March 2020 — April 2020

- Developed a *Facial Recognition system* that grants access to verified personnels, else sends a verification email to the owner to add it to the known-face database