Arpan Ghoshal

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Objective

I am a technology enthusiast with a creative mind and critical thinking. Procured with the skill to make complicated things work by analysing and learning things in a short time.

I have explored and experimented with lots of technologies in Computer Science. But now, I want to specialize in the Cyber Security domain and am looking for a job to choose my ultimate path after exploration.

Skills

- Theoretical Skills: Full-Stack Python Development, REST Architecture, Artificial Intelligence (ML/DL), Database Management System, Cloud Computing and Cyber Security.

- Technologies Used: Flask API, Tensorflow, PostgreSQL, MongoDB, AWS, Git, Linux and Cyber Security tools for CTFs.

- Languages: Python, JavaScript, C and SQL

Education

PES University, Bangalore

B. Tech, Computer Science and Engineering

(Data Science Specialization) -7 CGPA

2017-2021

Ryan International School, Ludhiana

CBSE, Science - 8.8 [10th], 72% [12th]

2017

Work Experience

[1.]PwC India | Gurgaon, India - *Dual Internship*

Cyber Security Intern February 2021 – Present

- Working on SailPoint application onboarding for securing devices with IAM access.
- Analysing log reports of EDR applications.
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[2.]BrainEnTech Neuroscience | Bangalore, India - *Dual Internship*

Full-stack Machine Learning Intern December 2020 – Present

- **Audio API**: Created and implemented architecture for scalable real-time audio analysis and modification based on human voice input [emotion and engagement models - brain data].
- Full-stack development of the application and deployment in AWS.
- Made a master data in MongoDB for extracting information from real time audio analysis of all the users.
- Made an architecture for an extensive audio and text analysis of recorded audio.
- Experimenting with audio attributes for emotion analysis. *(Writing research paper on it)*

[3.]Seoura.com | By Arpan Ghoshal

Professional Freelancer August 2020 – January 2021

- Designed and developed responsive websites for small scale industries/business.

[4.]Fintech Sandpit | London, United Kingdom

Data Engineer Intern June 2020 – August 2020

- Generated synthetic data from various datasets as references with proper statistical measures for financial institutions.
- Created an architecture in AWS cloud infrastructure with the interaction of RDS (Postgres), Atlas (MongoDB) and EC2 instances, involving various API interactions, dockers and configurations.
- **Data API:** Designed and implemented a workflow where data uploaded to a server will be converted into a REST API which has a secure and efficient interface. Used Python framework - Flask.
- A user can access (also query) the data with the help of a URL with the help of a token given to them.
- Worked on Power BI tool for data visualization and storytelling purposes.

[5.]Metro Tyres | Ludhiana, India

Backend Developer Intern May 2019 – July 2019

- Made APIs with an interface for Complaint and Service Management System using Flask.
- Implemented algorithms for managing consumer complaints and assigning work to support teams.
- Integrated PostgreSQL database for managing various entities and operations.

College Projects

- ***Smart Query Search*** - With a provided search query a summarized human-like output is generated with the help of semantically similar paraphrase detection and efficient parsing. *(Writing research paper on it)*

- *Hashtag Generator* (**48hrs Hackathon**) - Can generate hashtag from any image or caption using real-time Instagram data. [link]
- *Image Caption Generator* - Generated captions of an image using RNN and CNN.
- *Budget Forecasting* - Implemented many techniques like ARIMA and LSTM to find the lowest error in the validation set of time series budget data.
- *RideShare Cloud* – Developed a ride-sharing application in the cloud.

Certifications

- IBM Data Science Professional Certificate
- TensorFlow Specialization, deeplearning.ai
- Machine Learning Bootcamp, CodeAsylums-Bangalore
- Web Development using Python, Aptech

Languages

- English, Hindi, Bengali and Punjabi.