Rohit Gampa

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EDUCATION

Indiana University, Bloomington

Master of Science in Data Science

Subjects: Data Mining, Introduction to Intelligent systems, Introduction to Statistics

Electrical and Electronics, NITK Surathkal

B. Tech in Electrical and Electronic Engineering.

Subjects: Signal Processing, Advanced Signal Processing, Linear Algebra, Statistics.

SKILLS

Programming Languages: Python, R; Apache**:** Druid, Kafka, Pinot, Superset; **AWS:** EC2, S3, lambda, SES, Kinesis.;
Specific Frameworks: Scrapy, Requests, Streamlit, Selenium, FastAPI, Flask ; **Other Skills:** RTOS, MySQL, PostgreSQL**.**
Spoken Languages: Telugu, Kannada, Tamil ; **Languages I can Write in**: English, Hindi; **Languages that I'm Learning:**
Japanese, Korean

WORK EXPERIENCE

Data Science Research Assistant   **Energy Justice Lab**   **Nov 2021 – Present**

- Working on creating a automated system to scrape data from various sources on periodic basis into a single data source and create a Visualization based on the data.

Technology Consultant   **Riot Solutions Pvt Ltd, Bangalore**   **Jun 2021 – Aug 2021**

- Worked on Creating a new product line based on the previous experiences and customer pain points.
- Created the whole Technology architecture for the new product. (Backend, hardware, and frontend)

Data Engineer   **Red Black Tree Technologies Pvt Ltd, Chennai**   **Aug 2020 – Jun 2021**

1. Worked on a machine Vision system to help the customer to help create a better-quality Assurance system. This project involves object detection using TensorFlow, object tracking and gesture recognition.
2. Aggregating all the 3rd party data into a Dashboard for easy access.
    - Leverage SurveyMonkey and Mailchimp API to get all the information through OAuth2 into a single system for better insights.
    - Pulled Google Analytics Data using Google analytics Reporting API via Kafka into Druid to store the data for a custom Dashboard created using plotly, plotly-js.
3. Building out the data infrastructure for a project management system/app.
    - Creating a scalable real-time analytics system using Druid and FastAPI.
    - Capturing data from various Sources and injecting into Druid.
    - Transforming the ingested data into Dashboards, insight emails etc.
    - Created a Data API endpoint that will shorten backend/frontend work.

DSP Research Engineer   **Riot Solutions Pvt Ltd, Bangalore**   **Jan 2018 – Jul 2020**

- Built out the entire software stack deployed on the hardware.
- Created and maintained a data pipeline to improve the core algorithm using statistics and machine learning.
- Built Out the internal analytics dashboards using Streamlit and python.
- I have successfully created and deployed algorithms to extract Breathing rate, detect Breathing Pause(Sleep Apnea) from the Breathing signal.
- Analysed data in the database to optimize various features offered by this product.
- Using time-series Sleep, breathing data to understand patterns and help parents in sleep training babies.

PROJECTS

- Analysis of effect of google trends data on the price prediction of Bitcoin price using Deep Learning with LSTM models.
- Impact of using SVD on train and test images on the testing accuracy of the Neural Networks.