Rishi Sharma

Software Engineer

Relevant Experience: **6 Months**

Total Experience: 9 Months

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📍 Benglaruu

About me

Enthusiastic Software developer eager to contribute to team success through hard work, attention to detail and excellent organisational skills. Carefully customizes each product to user needs and budgets. A clear understanding of development methodologies and skilled in C/C++ & Python.

Experience

Cisco Systems
August 2021 - present

Software Engineer

- Designing **wikis** & writing **high-quality code** for the features
- **Reviewing** code from other developers and suggesting **improvements**
- **Interact** with the designer to suggest changes and to make sure the view he has about the design is translated into actual functionality
- Working on latest Stack such as **microservices**, **Scala**, **Jira**, **Kafka**, **Docker**.

Cisco Systems
May 2020 - June 2020

Data Analyst Intern

- Created pipeline for **automatically** doing **anomaly detection** of **time series** data collected across the servers.
- Coordinated statistical **data analysis**, **design**, information flow and performed **documentation**, **implementation** of the Cisco Webex server data.
- Built **library** of models and reusable knowledge-base assets to produce consistent and streamlined business intelligence results for doing **time series** forecasting of Webex data.
- Used **statsmodel**, **NumPy**, **pandas**, **Matplotlib**, **Sklearn** for **data analysis** and **plotting**. **Link**:- *https://github.com/kampaitees/Internship-Project*

IISC Bangalore
May 2019 - July 2019

Machine Learning Intern

- Designed and developed a web portal for doing **criminal image search** from their database using **Facial Recognition**.
- Used **Django** as backend, **python** as a scripting language and libraries such as **NumPy**, **OpenCV**, **pandas**, **Keras** for **machine learning** and **data analysis**.
- Analyzed **crime data** to give insights about the crimes happening, showing the **correlation** between the places and particular crimes to reduce them. **Link**:- *https://github.com/kampaitees/Web-App-for-Image-Search*
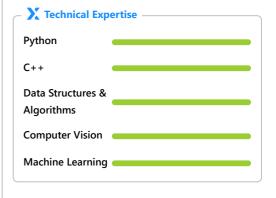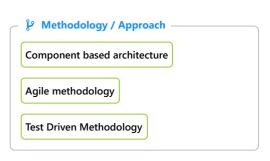
Key Projects / Involvements

1. WIDECAPS: *Wide Attention-based Capsule Network for Image Classification* | **Apr 2020-Jul 2021** A **research paper** that proposes a **new design strategy** for **Capsule Network** architecture for efficiently dealing with complex images

- It **outperforms** the **top-5** performance on benchmark datasets **CIFAR-10** and **Fashion MNIST** with highly competitive performance on the **SVHN** dataset.
- The proposed method incorporates **wide bottleneck residual modules** and the **SE attention blocks** to address the defined problem.
- A **wide bottleneck residual module** facilitates extracting complex features whereas, the **SE** attention block enables channel-wise attention by suppressing the trivial features. **Link**:- *https://arxiv.org/pdf/2108.03627.pdf*

2. Criminal Image Search | **Jun 2019 - Jul 2019** | A **web portal** for searching the **criminal image** from database output best 'n' similar images found from records of criminal.

- Used **Django** as backend and **python** as a scripting language.
- The front end is created with the help of **HTML**, **CSS**, **JavaScript**. **Link**:- *https://github.com/kampaitees/Web-App-for-Image-Search*

Certificates and Awards

- **Published** a research paper for getting the **state-of-art accuracy** in **Capsule Network** architecture on **benchmark Image Classification dataset**.
- **One** of the **150** participants selected from India for **Google Research India - AI Summer School** (August 2020).
- Secured **7th** rank in **Intel Scene Image Classification** Challenge(**3k** people participated on Analytics Vidhya).

Technical Expertise

Python

C++

Data Structures & Algorithms

Computer Vision

Machine Learning

Skills / Exposure

Object Oriented Programming(OOPs)

Deep Learning · Data Science

Data Analysis · Image Processing · Django

Presentation · Googling

Jupyter Notebook · Numpy · Pandas

Tensorflow · Matplotlib · Sklearn · SQL

Methodology / Approach

Component based architecture

Agile methodology

Test Driven Methodology

Tools

Git · Github · Intellij IDEA · Jenkins

Stack Overflow · Confluence

Education

B. Tech
2017 - 2021

Computer Science

National Institute of Technology Karnataka(NITK), Surathkal

CGPA 8.3