Rishi Sharma

Software Engineer

Relevant Experience: **9 months**

Total Experience: 1 year

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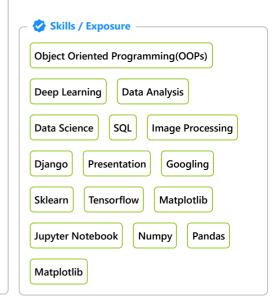
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👤 About me

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 & optimization
- 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 the latest stack such as μservices, Confluence, Scala, Jira, Kafka and 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 searches from their database using Facial Recognition.
- Used Django as backend, python as a scripting language and libraries such as Numpy, Pandas and 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 criminals.

- Used Django as backend and python as a scripting language.
- The front end is created with the help of HTML, CSS, and 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 Analysis
- Data Science
- SQL
- Image Processing
- Django
- Presentation
- Googling
- Sklearn
- Tensorflow
- Matplotlib
- Jupyter Notebook
- Numpy
- Pandas
- Matplotlib

⑂ Methodology / Approach

- Component based architecture
- Agile methodology
- Test Driven Development

🔧 Tools

- Git
- Intellij IDEA
- Jira
- Confluence
- Github
- Stack Overflow

🏛 Education

B.Tech
2017 - 2021

Computer Science

National Institute of Technology Karnataka(NITK), Surathkal
8.3 CGPA