Varun Manjunath

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Education

University of Colorado, Boulder (August 2021 - May 2023)

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Boulder, Colorado GPA:3.880/4

Master of Science in Computer Science

PES University (August 2016 - August 2020)

Bachelor of Technology in Computer Science and Engineering

Bangalore, Karnataka

GPA:8.81/10

Stanford University (June 2019 - August 2019)

Stanford Summer Program

Stanford, California

GPA:3.61/4

Skillset

• Programming Languages: C++, Python, JavaScript, HTML (with CSS), SCSS, Java

• Machine Learning Techniques: Naive Bayes, Decision Trees, Logistic Regression, Support Vector Machines, Convolution Neural Networks, Capsule Networks

• Tools: Git, Kubernetes, Docker, PostgreSQL, NGINX, Ansible, Terraform

• Libraries : Scikit-learn, pandas, NumPy, Matplotlib, Pytorch, Keras

• Frameworks: Flask, React, Angular

Experience

QI PATH Aug 2022 – Present

Front End Developer Boulder, Colorado

• Working on migrating the front end from **PHP** to **Angular** for the **QI PATH** system that is used to find, prioritize and address vulnerabilities in any project.

Arista Networks

June 2022 – August 2022

Software Engineer Intern

Austin, Texas

- Learned about the Code Base which revolves around the concept of creating an Agent.
- Unblocked the VTI, VNI policer CLI in Arfa so that Microsoft can configure it One.
- Worked on MLAG (Multi-Chassis Link Aggregation) switch where I had to Refactor code to sync only Flood List entries across MLAG switches.

University of Colorado at Boulder

Jan 2022 - May 2022

Course Manager - Machine Learning

Boulder, Colorado

Conducted office hours for students and resolved their doubts in the Machine Learning grad course. During office hours, clarified conceptual questions pertaining to algorithms like K-means clustering, Convolution Neural Nets,
 Random Forest Classifier.

m VMware
m Aug~2020-Aug~2021

Applications Administrator

Bangalore, Karnataka

- Deployed and maintained around **30** applications on Kubernetes.
- Wrote shell scripts to monitor the latency of docker pulls from **Harbor**(a private repository for storing docker images) hosted internally within the VMware data center and externally on Amazon Web Services. The shell script monitored around **228 docker images** deployed by several teams within and outside VMware on **Harbor**. Outputs of these shell scripts were then fed to Wavefront, a web-based user interface to display the results in the form of line charts.

Valuebound Consulting Services

Feb 2020 - June 2020

Data Science Intern

Bangalore, Karnataka

- Built a **Context-Based Recommender** System that provides persona-based content to VMware employees on the Intranet based on the Employee's function, role, location, and interests.
- The Recommender system achieved a **personalization score** of **0.744** which is pretty high.

Mindstix Software Labs

June 2018 - Aug 2018

Data Science Intern

Pune, Maharashtra

- Developed an Adaptive Learning and Collaboration Platform to provide requirement-based training to beauty
 advisors of the Estee Lauder cosmetic company.
- There were a total of **30** questions and these questions were equally categorized into **Easy,Medium and Hard** levels.
- Developed a **Chat-bot application** to deliver information about cosmetic products to **Estee Lauder** cosmetic company
- Around 200 question-answer pairs were collected from company employees and trained on the Rasa NLU framework.

Projects

Viz-Wiz Visual Question Answering System | Python, Pytorch, Numpy

March 2022 - April 2022

- Designed a Viz-Wiz Visual Question Answering system that takes an image and question as input and outputs the answer to the question. The question is related to the content present in the image
- The model utilizes a combination of **Resnet50** for image feature extraction and a **bidirectional LSTM** for question encoding.
- Achieved an accuracy of 44.2 percent on the validation set

A Music Store Simulation | Java, JUnit

Jan 2022 - March 2022

- Utilized Object Oriented design principles to create a simulation of a music shop.
- The shop includes buy and sell transactions, where the customer can buy a musical item and sell musical items to the store.

Provisioning of AWS infrastructure using Terraform | Terraform, AWS

October 2021 - December 2021

- Provisioned AWS EC2 instances and created an Apache server within them to access the content.
- Performed a simulation of Blue-Green deployment on AWS.

Brewery react application | Flask, ReactJS, PostgreSQL

July 2021 - August 2021

• A brewery react app that implements search functionality. The user can search the breweries based on the location, address, state, city, and number.

Publications

• Anant Koppar, Siddharth Kailasam, Varun M, "Pediatric Bone Age Detection using Capsule Networks".In: "Lecture Notes in Networks and Systems" (ICICT 2020 conference).