AAKASH SHETTY

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EDUCATION

New York University, New York, USA   **CGPA: 3.85**
Candidate of Master of Science in Computer Science
Relevant Coursework: Cloud Computing, Big Data, Algorithms, Computer Vision, etc.

NMIMS, Mumbai, India   **CGPA: 3.38**
Bachelor of Technology in Computer Engineering
Relevant Coursework: Data Structures, Database Management, Software Engineering, Web Technology, etc.

EXPERIENCE

Computer Vision Research Intern   **June 2022 - August 2022**
Sony Group Corporation   *Tokyo, Japan*
- Development, Inference and Evaluation of Transformer based object detection model with camera and radar sensors for automotive use cases.
- Worked on real data captured by sensor and public datasets (Waymo and more) using pytorch.

Big Data Course Assistant   **September 2022 - Present**
New York University   *New York, USA*
- Provide assistance to professor with Big data course at university by grading assignments, and projects.
- Assist fellow students with course tools and queries and led weekly meetings for course discussions and questions.

Developer Intern   **April 2021 - May 2021**
The Sparks Foundation   *Mumbai, India*
- Developed a fully-functional prototype Banking website using Django, Python, HTML, CSS, Javascript, and jQuery.
- Implemented features such as User Creation, Money Transfer, and Transaction details which improved the user experience and streamlined banking processes.

PROJECTS

Smart Helmet for Impaired Vision Assistance
- Designing a helmet for the visually impaired to navigate the street and reach from source to destination using Raspberry pi, Google maps API, YOLOv3, OCR, and voice assistant.
- Visualizing and modeling the 3-D design of the helmet using Solidworks.

Heartify - Cloud Based Heart Diseases Predictor
- Implemented a dynamic web application using AWS cloud for predicting heart diseases using XGBoost and making dietary suggestions for heart patients based on their diagnosis.
- Managed all services using AWS tools such as Sagemaker, Elastic Search, DynamoDB, EC2, lambda and many more.

Streamify - Churn Prediction
- Designed and developed a churn prediction software with big data pipeline including Kafka and spark streaming for log aggregation and Hadoop cluster for data storage.
- Performed data exploration and visualization, modeling, training and testing using PySpark after retrieving from Hadoop.

Musical - Music Database
- Designed a web app for playing songs, podcasts, and managing playlists for a typical user, also displayed popular trending songs based on hits for different categories.
- Managed the data in a postgreSQL database for queries and analytics.

Dynamic Websites
- Designed a website for an NGO – 'NGOrphan' in Python using HTML, CSS, and Django to make adoption process simpler, procure donations and update events held by the NGO.
- Developed a Movie Review website using PHP, HTML, and CSS for users to upload movie and TV show reviews which can be viewed by all the users.
- Created an E-commerce website for Album Sales in Python Django to sell music albums and merchandise.

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, C#, MySQL.
- **Software/Services:** MATLAB, AWS, SAS, Unity, LaTeX.
- **Web Technologies:** HTML, CSS, JavaScript, jQuery, Django, PHP.
- **Libraries:** PyTorch, OpenCV, Scikit-learn, Pandas, Numpy, Matplotlib.