Pradipt Kalamkar

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EDUCATION

New York University - *Master's in Computer Science* **New York, NY**
- Coursework: Design & Analysis of Algorithms, Database Systems, Computer Vision, Human Computer Interaction.

University of Mumbai - *Bachelor's in Computer Engineering* **Mumbai, India**
- Highest CGPA (scale of 10): 9.96 | Coursework: Discrete Mathematics, Data Structures, Database Management System, Computer Networks, Cloud Computing, Machine Learning, Distributed Computing, Big Data Analytics.
- **Achievements**: Mathletes Tournament at "Exalt" Techfest: Winner (2017), Runner-Up (2019), KIM Talks (Tedx-like event): Delivered a talk on "Mathematics in Today's World", Ideathon 2019 Finalist: Mobility Domain.

WORK EXPERIENCE & PROJECTS

NEXT LEVEL 30 **Hoboken, NJ**
SOFTWARE ENGINEER, MARKETING ANALYTICS *MAY 2022 – AUG 2022*
- Analyzed data from **22.5K** potential customers, including monthly active users, and used outputs to guide marketing and product strategies, which resulted in an increased average customer engagement time by **2x**, a decreased dropoff rate by **43%**, and a total generation of **$100K** in ongoing funding over a **4**-week timeframe.
- Revised campaign strategies based on quantitative PowerBI analytics, identifying key attributes to boost brand awareness and program efficacy, translating into a **23%** surge in monthly revenue. Leveraged analytical proficiency, delivering actionable insights from numerical data for the Marketing team and boosting brand visibility by **18%**.

APSIT SKILLS **Mumbai, India**
SOFTWARE DEVELOPER, COMPUTER VISION *FEB 2019 – NOV 2020*
- Developed & implemented system to accurately detect unusual human activity in public places with **92%** accuracy, resulting in a **23%** decrease in false alarms.
- Programmed a model featuring OpenCV, Python3, NumPy and Jupyter Lab IDE for image thresholding & shape analysis/detection, yielding **200x** faster optimization than conventional methods and increasing efficiency by **25%**.
- Preprocessed input video frames by converting them into grayscale & optimized the model by reducing white noises through dilate functions, ensuring more efficient human movement detection.

Offside Detection in Soccer using digital Image Processing solutions (Capstone) **Fall 2019**
- Engineered an image processing model to improve Video Assistant Refereeing (VAR) process, utilizing Python3, NumPy, SciPy, Pandas, Tensorflow & Google Collab IDE to reduce **98%** of processing time.
- Facilitated analysis of traditional VAR procedures by spearheading a **3**-person team in devising a faster solution that improved the game's quality. Generated actionable insights through data exploration and predictive modeling resulting in increased accuracy and reliability of on-field decisions with an **85%** reduction in faults.

Soil Moisture Detection using Machine Learning model **Spring 2019**
- Developed a supervised ML model using linear regression in Python3, accurately predicting soil moisture levels post-harvesting of crops to facilitate optimized descendant selection maximizing soil quality and minimizing erosion.
- Analyzed **30K** records spanning **20** years of data detailing amounts of rain, soil type & available sunlight, resulting in a **5%** reduction in prediction error compared to previous models. Produced real-time insights & forecasts to improve farmers' crop yield efficiency by **10%**, providing considerable cost savings across **80+** districts.

Cryptoguru- A Live Cryptocurrency Price teller chatbot **Spring 2021**
- Developed an interactive Chatbot with HTML, CSS & JS, responding to customer queries on live cryptocurrency pricing. Mined data from Crypto Compare API improving loading times by **45%** & optimizing performance by **25%**.

Web Development: Online Polling System **Fall 2018**
- Constructed a Web platform with HTML, CSS, MySQL and PHP featuring multiple polls (create/respond) to encourage greater student-user engagement resulting in **60%** usage growth within a month & **82%** satisfaction rate.

Computer Graphics: A Dreadnought in the ocean **Spring 2018**
- Leveraged OpenGL Utility Toolkit(glut) & math library to develop an interactive Dreadnought with cannons, increasing the overall appeal by **25%**. Employed midpoint Line/Circle drawing algorithm & Scanline polygon fill algorithm to create visuals in Codeblocks IDE, resulting in a **40%** reduction in time spent on graphic design elements.

TECHNICAL SKILLS

- **Languages/DB:** C++, Python, Java, SQL, Javascript, HTML, JSON, MySQL, PostgreSQL, MongoDB, DynamoDB
- **Framework/Libs:** Angular, Spring Boot, React, Node.js, jQuery, Django, Tensorflow, MapReduce, PySpark, Keras.
- **Tools:** Apache Kafka, Git, Docker, Jenkins, Google Suite, AWS, Kubernetes, Firebase, Hadoop.
- **Microsoft Power BI:** Prepare, Model, Visualize and Analyze Data & Deploy and maintain deliverables.
- **Cloud Computing Services: Google Cloud Platform:** Compute Engine, Virtual Machines, Cloud Infrastructure and Architecture, Load Balancing, Autoscaling, Kubernetes, VPN, Site Reliability Engineering, Disaster Recovery. **Microsoft Azure:** Azure Portal, PowerShell, CLI, Resource Manager (ARM), DDoS Protection, TCO Calculator.
- **MS Office and Operating Systems:** Word, Excel, Powerpoint, Windows 10/8/7, MacOS X, Linux.
- **Other Skills:** Web Scraping, Data Analysis, Data Visualization, Pattern Recognition, Git Version Control System, Project Management, Business Development, Portfolio Management, JIRA, Scrum, Agile Methodology.