

Pradipt Kalamkar

New York, NY | ppk2015@nyu.edu | (917)-691-9648

Linkedin: <https://www.linkedin.com/in/pradipt-kalamkar-aal1b5aaa/> | Github: <https://github.com/pradipt98/>

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

- Coursework: Database Mgmt System, Computer Networks, Big Data, Data Visualization, Project Management.
- **Achievements:** Mathletes: Winner (2X), KIM talks: "Mathematics in Today's World", Hackathon 2019 Finalist.

WORK EXPERIENCE & PROJECTS

JEFFERIES GROUP LLC

New York, NY

SOFTWARE ENGINEER, COMPLIANCE TECH & AUDIT REPORTING

AUG 2022 - PRESENT

- Managed Trade and Communications Surveillance initiatives, leveraging AI to monitor and supervise **10,000+** firm communications & over **28 million** trading activities, resulting in the detection and prevention of instances of insider trading, fraud, and other high-risk behaviors preventing over **\$1.5 million** in potential fines/penalties by **FINRA/SEC**
- Accomplished **99.98%** trade reporting compliance & timely reporting of **800K** pre-trade, trade and post-trade transactions while identifying and rectifying issues related to OATS, CAT & other regulatory mandates. Remodeled a robust Trading Control Framework for **1000+** financial instruments, enhancing efficiency & risk management.

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

Mumbai, India

SOFTWARE DEVELOPER, COMPUTER VISION

JAN 2019 – DEC 2020

- Developed & implemented system to accurately detect unusual human activity in public places with **92%** accuracy, resulting in a **23%** decrease in false alarms. Preprocessed input video frames & optimized the model by reducing white noises through dilate functions, ensuring more efficient human movement detection
- 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%**.

Offside Detection in Soccer using digital Image Processing solutions (Capstone)

Thane, India

- 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

New Delhi, India

- 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.

Cryptoguru- A Live Cryptocurrency Price teller chatbot

Thane, India

- 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

Mumbai, India

- 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.

TECHNICAL SKILLS

- **Languages/DB:** C++, Python, Go, R, Java, SQL, Javascript, Typescript, JSON, MySQL, PostgreSQL, MongoDB.
- **Framework/Libs:** Angular, Spring Boot, React, Node.js, jQuery, Django, Tensorflow, Flask, NextJS, Pytorch, Spark.
- **Tools:** AWS, Elasticsearch, Redux, JUnit, Jest, pytest, Kafka, Git, Docker, Jenkins, Ruby on Rails, Databricks, Redshift, DynamoDB, CI/CD, S3, Airflow, Hadoop, MapReduce, Firebase, Snowflake, Terraform, REST APIs, ETL.
- **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.
- **Other Skills & Operating Systems:** Web Scraping, Data Analysis, Pattern Recognition, Portfolio Management, JIRA, Scrum, Agile Methodology, MS Office-Word, Excel, Powerpoint, Windows 10/8/7, MacOS X, Linux.