

# Payal Mehta

<https://www.linkedin.com/in/payal-mehta95>

<https://github.com/PayalSainathMehta>

Email: [psmehta@cs.stonybrook.edu](mailto:psmehta@cs.stonybrook.edu)

Mobile: (631)215-8072

<https://payalsainathmehta.github.io>

## EDUCATION

### Stony Brook University

*Master of Science in Computer Science*

**Stony Brook, NY**

*Aug 2019 - Dec 2020*

**Major Coursework:** Natural Language Processing, Analysis of Algorithms, Data Science Fundamentals, Database Systems, Probability and Statistics for Data Scientists, Logic in Computer Science, Visualization

### K.J. Somaiya College of Engineering

*Bachelor of Technology in Computer Engineering; CGPA: 9.13/10.0*

**Mumbai, India**

*Aug 2012 - May 2016*

**Major Coursework:** Data Structures, Big Data Analytics, Theoretical Computer Science, Soft computing.

(Rank 1 in department of Computer Engineering -**Ratan Tata Award Winner for outstanding academics**)

## TECHNICAL SKILLS

- **Languages:** Java (4 years), SQL (3 years), Python (2 years), C (1 year), LaTeX (1 year)
- **Web Technologies:** HTML (4 years), CSS (4 years), PHP (2 years), Javascript (1 year)
- **Tools And Technologies:** AWS, Git, Oracle 11g, My SQL, Datalog, PostgreSQL, IntelliJ, NetBeans, Eclipse, Maven, Gradle, Jboss 6.0, WildFly, Jira
- **Frameworks:** JUnit, CodeIgniter, Java EE, Apache Hadoop, Bootstrap, Flask, D3.js

## EXPERIENCE

### Barclays Technology Centre India

*Senior Application Developer*

**Pune, India**

*Mar 2018 - Jun 2019*

- Developed the bank's payment pre-processing and message routing system which helped accelerate the payment process, increasing the productivity by 55%.  
*Core Java, Java EE, Enterprise Java Beans, Jboss 6.0*
- Developed multiple enhancements and bug fixes for testing automation framework using JUnit and Arquillian resulting in 40% lesser production issues.

*Technology Analyst*

*Aug 2016 - Mar 2018*

- Designed and supported the core payment processing engine of Barclays, Global Pay Plus - Responsible for designing business artifacts, high level solutions and the Technical Service Business Impact Assessment for High Value Payments.
- Optimized query execution time from 5 hours to 25 minutes on a task involving analysing about 3 million oracle db records as part of static Sanctions screening -**Received Barclays Global Recognition award for excellence.**
- Built and maintained a System Integration Catalog with 700 different connections to/from the payment engine leading to a reduction in requirement to workflow mapping time by 50% - **Received Barclays SPOT award for entry level individual work in designing a high level solution for the bank's High Value Payments space.**
- Responsible for taking over varied roles and responsibilities in the SDLC - waterfall model from requirement gathering and design to development and testing.

## MOST RECENT PROJECT - WINNER

- **"Password-less Authentication Model"**: Awarded Best Security Hack: The Future of Safety Hack @CEWIT Hackathon 2020. Developed a password less ultrasonic authentication model for data transfer over sound waves. (CEWIT Hackathon @SBU - Feb 2020) Link:- <https://devpost.com/software/passwordless-ultrasonic-auth>

## PROJECTS

- **"Low Vision E-reader"**: Worked on an independent study where I developed a software to parse chat conversations in websites like Stack overflow and display a directed graph for people with low vision.  
*Python- Flask*
- **"Learning Management System"**: Built a learning management system equipped with a recommendation engine based on Apache Hadoop to generate course recommendations for students to facilitate on-the-go learning. Hosted on Amazon Web Services(AWS).  
*Paper accepted in IJCA: <https://www.ijcaonline.org/archives/volume140/number10/24627-2016909449>*  
*PHP, CodeIgniter, HTML, CSS, Javascript, Hadoop*
- **"Sentiment Analysis"**: Developed a Gated Recurrent Unit and a Deep Averaging Network to predict whether a sentence conveyed positive or negative sentiment.  
*Python, Tensorflow*
- **"Fraud predictor"**: Built a linear regression model to predict whether a particular transaction is fraud or valid.  
*Python, Pandas, Scikit-learn, Numpy, Matplotlib, Seaborn, BeautifulSoup*