

Dhaval Popat

345 Ovington Ave, Apt 5C, Brooklyn, New York, NY 11209 | (646) 725-1645
dhaval.popat@nyu.edu | www.dhavalpopat.com

EDUCATION

New York University , New York, NY	May 2019
Master of Science in Computer Science, GPA: 3.73/4.0	
Selected Coursework: Cloud Computing, Big Data Analytics, Machine Learning, Data Science, Information Visualization	
University of Mumbai , Mumbai, India	May 2017
Bachelor of Engineering in Information Technology	

TECHNICAL SKILLS

Programming Languages	: Python, Java, C#, C, MATLAB
Web Technologies	: HTML5, CSS3, Bootstrap, Kendo UI, jQuery, JavaScript, Node.js, D3.js, AJAX, PHP, AWS
Tools & Frameworks	: ASP.NET, Entity Framework, Django, Hadoop, Spark, Tableau, OpenCV, TensorFlow
Databases	: MongoDB, DynamoDB, MS SQL Server, MySQL, PostgreSQL

PROFESSIONAL EXPERIENCE

Zebra Technologies , Hauppauge, NY	Jun 2018 - Aug 2018
<i>Software Engineering Intern</i> (Technologies: C#, LINQ, SQL Server, jQuery, JavaScript, AJAX, REST API, Razor, Kendo UI)	
<ul style="list-style-type: none">Upgraded legacy desktop system to a web application using ASP.NET MVC for seamlessly processing inventory orders.Analyzed client's requirements and implemented innovative functionalities that led to about 65% increase in user productivity.Improved forecasting accuracy by incorporating advanced features and designed SQL tables to efficiently support them.Enhanced shipping effectiveness by devising an intelligent carrier algorithm and integrating smart calendar controls.	
NYU Langone Health , New York, NY	Feb 2018 - May 2018
<i>Student Research Intern</i> (Technologies: TensorFlow, OpenCV, PyQt, Python)	
<ul style="list-style-type: none">Developed an interactive desktop application to facilitate cognitively impaired patients with text and voice based communication.Fine-tuned Faster R-CNN model with Inception v2 to verify cranial placement of an experimental treatment tDCS device.	
Drishti Group , Mumbai, India	Jun 2017 - Aug 2017
<i>Computer Vision Intern</i> (Technologies: OpenCV, Python, Django)	
<ul style="list-style-type: none">Built a real-time surveillance system that detects and tracks people in deep sea water to prevent them from drowning.Trained the system with about 30,000 data samples using cascade classifiers and achieved over 85% detection accuracy.Integrated a module to alert lifeguards by sending them the missing person's location and tracked route.	

PROJECTS

AI Customer Service Chatbot (Cloud Computing: AWS Lambda, API Gateway, Cognito, S3, Lex, SQS, DynamoDB, SNS)	Fall 2018
<ul style="list-style-type: none">Developed scalable conversational dialog engine that recommends restaurants to users based on their location and preferences.Employed lambda function with Lex to generate responses and used API Gateway as interface connecting frontend hosted in S3.Ensured scalability by integrating event driven lambda that fetches suggestions from Yelp API and pushes them to SQS queue.Triggered another lambda function in a timely manner to retrieve suggestions from SQS and provide them to user using SNS.	
Event Finder – Search Nearby Events (Backend Development: Node.js, Express, RESTful APIs, NeDB, D3.js)	Summer 2018
<ul style="list-style-type: none">Built an API endpoint to get local events that in turn fetches data by hitting an external API using basic authentication.Implemented authentication module and created a middleware function to authorize users' API requests.	
Music Analytics & Genre Recognition (Big Data Analytics: PySpark, Scala, MLlib, AWS)	Spring 2018
<ul style="list-style-type: none">Built pipeline to extract song metadata from two web sources, transform and aggregate multiple h5 files into CSV files.Carried out data cleaning and integrated both datasets on Amazon EMR for analyzing trends over the years.Employed random forest classifier to recognize genre using features such as valence, acousticness, liveness, danceability, etc.	
Sense.Me – Monitoring Mental Health using Smartphone Data (Data Science: Python, scikit-learn)	Fall 2017
<ul style="list-style-type: none">Analyzed behavioral changes to interpret relationship between smartphone data and student's mental health state.Trained a Lasso Regression model to estimate possible level of depression and stress in students.	

PUBLICATIONS

- A. Sen, D. Popat, H. Shah, P. Kuwor, and E. Johri: Music Playlist Generation Using Facial Expression Analysis and Task Extraction. Intelligent Communication and Computational Technologies, Lecture Notes in Networks and Systems, Springer, October 2017.