

NIKITA ASHOK PATIL

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EDUCATION

Northeastern University Candidate for <i>Master of Science</i> in Engineering Management (GPA: 3.667) Coursework: Data Mining, Data Management for Analytics, Computational and Visualization for Analytics, Probability and Statistics	Boston, MA Dec 2023
University of Pune <i>Bachelor of Engineering</i> Coursework: Engineering Mathematics, Calculus, Industrial Engineering, Statistics, Operations Research, Computer Programming	Pune, India June 2015-May 2019

TECHNICAL SKILLS

- **Programming Languages:** R, Python, SQL, JavaScript, C#
- **Business Intelligence Tools:** Tableau, Microsoft Power BI, QlikSense, QlikView, Microsoft Excel, SAS, SPSS
- **Database Management Tools:** MySQL, AWS Athena, Microsoft SQL Server, MongoDB (No SQL)

EXPERIENCE

Northeastern University, Boston, MA <i>Course Facilitator</i>	April 2021- Present
<ul style="list-style-type: none">• Mentored 50 students in topics such as Linear regression, Hypothesis testing, and Descriptive Statistics. Conducted lab sessions emphasizing the hands-on application of probability and statistics in R.• Graded assignments and tests; provided feedback and shared students' reports with the professor. Worked individually with students to help them understand different complex topics in probability and statistics—improved average grades by 25%.	
Deepa Pharmaceuticals Pvt. Ltd. <i>Data Analyst</i>	July 2019-Dec 2020
<ul style="list-style-type: none">• Analyzed data of clients and maintained database of the customer, equipment, and their sales using MySQL.• Tracked and managed inventory data using Tableau, Advanced Excel, google sheets and R shiny apps of more than 40 industries. Researched and recommended KPIs for dashboards to improve the project completion timeline by 8.5%.• Expanded productivity by over 20% by creating Database Management Systems (DBMS), data processing and visualization pipeline.	
Chassis Brake International. <i>Data Analyst Intern</i>	July 2018-Aug 2018
<ul style="list-style-type: none">• Developed, tested data-driven manufacturing processes for disc brake and drum brake of light-duty automotive with Power BI.• Established data-driven practices and analytics infrastructure for Supply Chain such as production line feeding, inventory management, and procurement.	
Spectrum Electricals Pvt. Ltd. <i>Research Intern</i>	June 2018-July 2018
<ul style="list-style-type: none">• Researched and analyzed sheet metal bending to choose the best suitable sheet in bending operation.• Modeled and analyzed sheet metal in ANSYS V16.0 software considering three different materials of the sheet. Enhanced efficiency by 10.6%, selecting the best sheet metal based on stresses and deformation.• Established and monitored the entire manufacturing process of metal junction boards, distribution boards.	

ACADEMIC PROJECTS

Detection of IoT botnet attacks, Northeastern University	May 2021- August 2021
<ul style="list-style-type: none">• Conducted literature review of deep learning methods focused on cybersecurity of IoT sensors.• Identified knowledge gaps in existing deep learning methods that focus on autoencoders for detecting IoT botnet attacks for "Mirai" and "BASHLITE" botnets.• Developed a representative dataset of botnet attacks. Building and evaluating multiple classification models to improve botnet detection accuracy.	
Go to Market Strategy, Experiential Learning, Northeastern University	July 2021- August 2021
<ul style="list-style-type: none">• Gathered and organized data in a comprehensive format to upload information into a customer relationship management (CRM) system and defined target market and companies through available market intel.• Identified prospects producing an essential contact list for a target company, developed a tailored and targeted outreach pitch.	
Elderly Housing Development Operations Co-operation, Experiential Learning, Northeastern University	May 2021- August 2021
<ul style="list-style-type: none">• Investigated and visualized database of over 3000 Senior citizens of Charlestown, MA, using Tableau and Python to identify hotspots for potential marketing and sales initiatives.• Created 2700 discount cards for senior citizens by collaborating with the American Association of Retired Persons.	
Statistical analysis on the transmission rate of Sexually Transmitted Diseases	January 2021-April 2021
<ul style="list-style-type: none">• Developed data acquisition and processing pipeline in Python to capture and analyze unstructured data.• Conducted statistical analysis using Python on the infection rates for chlamydia, syphilis, gonorrhea, and HIV within different sub-populations and groups through various methods such as correlation analysis and Two-Sample T-Test and concluded infections rate.	