

## DEVESH SURVE

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### EDUCATION

**Northeastern University**, Boston, MA

**Expected May 2024**

*Master of Science in Computer Software Engineering*

Coursework: Concepts of Object-Oriented Design, Data Science Engineering Methods, and Tools

**Mumbai University**, Mumbai, MH, India

**May 2019**

*Bachelor of Engineering in Computer Engineering*

Coursework: Artificial Intelligence, Data Structures, Object-Oriented Programming, Software Engineering, Operating Systems

*Honors*: Final Year Gold Medalist ( Summa Cum Laude ), Board Member ( Alumni Representative) for Department of AI/ML

### TECHNICAL SKILLS

**Languages:** Python, R( Basics ), PySpark, Java, HTML5, CSS3, JavaScript, C++, XML, JSON  
**ML Libraries:** Numpy, Pandas, Scikit-learn, Scipy, Matplotlib, Seaborn, CUDA, Keras, Spacy, Tensorflow, Pytorch, Boto3  
**Python Libraries:** Flask, Alembic, Unicorn, SQLAlchemy, minIO, PyTest, Celery, Psycopg, Werkzeug  
**Databases:** MySQL, MS SQL Server, PostgreSQL, Snowflake, Maria DB, Cassandra DB  
**Deployment tools :** Docker, Kubernetes, Github, Gitlab, Bitbucket, Jenkins, AWS, EMR, S3, EC2, SageMaker, Azure, GCP  
**Tools & IDEs:** Jupyter NB, Anaconda, JupyterLab, Colab SAS Studio, RStudio, Swagger. Jira, Confluence, Jenkins  
**ML Algorithms:** Linear/Logistic Regression, Decision Trees, Random Forest, Support Vector Machine, Naive-Bayes, CNN, KNN

### PROFESSIONAL EXPERIENCE

**Larsen & Toubro Infotech, Pune India**

*Senior Product Engineer ( Machine Learning )*

**August 2021 - June 2022**

- Achieved 95% Quarter goals from collecting business requirements, design, planning, implementation & support for 50+ features
- Increased team size by 15% members by conducting 30+ interviews, training, project knowledge transfer & induction sessions
- Spearheaded the complete development of ML Interpretability & Automated Machine Learning libraries leading a team of 5
- Consolidated Spark with Kubernetes to run Spark jobs, eliminating dependency on a separate Hadoop cluster saving costs by 29%
- Collaborated with Business stakeholders including Leadership, Managers, Data scientists, Software Engineers, QAs & End Users.

*Product Engineer ( Machine Learning )*

**August 2020 - August 2021**

- Developed module for auto-deployment & scaling of ML Models resulting in improved model deployment rate of 75% success.
- Led team in presenting product demos to major clients including banks, government agencies increasing overall client base by 25%
- Implemented support for the data pipelining, monitoring, visualization of metrics & deployment covering 65% of all models.
- Compiled 25+ API for interacting with MySQL & PostgreSQL databases, using ORMs like SQLAlchemy improving code consistency
- Formulated & wrote 60+ test cases for unit, integration testing, utilizing Pytest increasing codebase coverage from 24% to 91%
- Researched & implemented dockerizing of Jupyter, R IDEs removing dependency on separate software for 70% of potential users
- Integrated ML Interpretability libraries like Lime, Shap strengthening ML Model insights & visualizations on platform by 20%

*Graduate Engineer Trainee*

**August 2019 - August 2020**

- Represented team in the Tech4 Heritage Hackathon, working as speaker & platform hosts resulting in a 20% increased user base
- Conducted research and experimentation to improve effectiveness of machine learning models by 15% using AutoGluon & TPOT.
- Utilized Amazon Web Services, Google Cloud Platform and Azure to host and deploy machine learning models using kubernetes.
- Worked on Model Assessment & Validation responsible for assessing the performance of over 35 ML models

### ACADEMIC PROJECTS

**F-HIRE AI Based Hiring Platform**

**Pune, India**

- Engineered AI Hiring Platform, solving problems of non-technical skills evaluation & bias, expediting hiring process by 2 times.
- Accelerated candidate-matching using BERT Models for resume keywords & shortlisting of jobs using cosine similarity by 15%
- Built an adaptive personality test for candidate's non-technical skills evaluation increasing overall candidates tested by 5 Times
- Demonstrated the product & presented an elevator pitch to VPs against 550 competitors, winning runner-ups in global hackathon

### PUBLICATIONS

**Technical Paper**, IJRESM Volume 2, Issue-8

- Wrote a paper on the Reporting and Counselling of Cybercrime using Intelligent Chatbot and Geolocation
- Delved into optimizing the allocation of complaints based off investigators geolocation and creation of chatbot to help out the victim as well as support to use functionality of app only using voice