

# MAYANK YADAV

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## SKILLS

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Languages	Java, Python, SQL, HTML, CSS, JavaScript
Database	SQL Server, AWS S3, Azure, PostgreSQL, DynamoDB, AWS RDS
Tools	Git, Postman, Docker, Kubernetes, Swagger, JIRA, Github Actions, Pulumi
Frameworks	Django, Flask, Pytorch, Numpy, Pandas, Matplotlib, Scikit-Learn, Scipy

## EXPERIENCE

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<b>Software Engineer</b> Goldman Sachs	May 2024 - Present <i>Dallas, US</i>
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- Developed account ledger systems for transaction banking using Java microservices with Spring and Kafka.
- Deployed and managed microservices on AWS, leveraging Snowflake for data storage, Terraform for infrastructure provisioning, and AWS services for workflow and cache management.

<b>Software Engineer</b> Railpod	May 2022 - Dec 2022 <i>Boston, US</i>
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- Developed a full-stack React/Django application with advanced document and image management features for 500+ users.
- Engineered Laplace-based algorithm, translated to JavaScript for image processing, cutting manual interventions by 30%.
- Automated rail track charting with Matplotlib, replacing manual Matlab/CAD processes and boosting efficiency by 80%.

<b>Software Engineer</b> AVL	Jan 2019 - Sep 2021 <i>Gurugram, IND</i>
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- Led a 10-engineer team to create a Flask/React labeling tool, incorporating OAuth SSO, boosting efficiency by 40%.
- Augmented search efficiency by 45% using BERT embeddings and Annoy's vectorized querying on 1M records.
- Enhanced F1 scores by 30% utilizing a fine-tuned BERT model for precise categorization of service requests.
- Deployed a Django-based analytics framework for emissions testing, optimizing 30-minute Drive Cycles from 5TB of data.
- Wrote Unit and Integration tests for new software features, improving code quality by 20% and enhancing software reliability.

## PROJECTS

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<b>AWS Web Application and CI/CD Implementation</b>	<a href="#">Github</a>
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- Streamlined a Flask application deployment on AWS EC2, faster launch with automated infrastructure via Pulumi and CI/CD enhancements through GitHub Actions.
- Triggered by assignment submissions, a serverless Lambda function automates email notifications and zip file upload on Google Cloud, leveraging CloudFront, ALB, Route53, SNS, DynamoDB and SQS.

<b>Heart Failure Prediction</b>	<a href="#">Github</a>
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- Implemented a web app to predict the patient's cardiovascular health using Flask, Plotly, Pandas and HTML/CSS.
- Attained 89% accuracy in predictive analysis by employing Logistic Regression and Random Forest ML models.

<b>Semantic Search Engine: Advanced COVID-19 Paper Analysis</b>	<a href="#">Github</a>
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- Engineered a semantic search engine for 100k+ COVID-19 papers using Meta AI's Faiss for vector analysis.

## EDUCATION

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<b>Master of Information Systems</b> , Northeastern University	2021 - 2023
Relevant Coursework: Data Structures, Python, Database Management, Algorithms, NLP, Cloud Computing	

<b>Bachelor's in Computer Science</b> , NorthCap University	2015 - 2019
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## AWARDS/ CERTIFICATES

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- Earned a [Nanodegree](#) in ML & AI fully sponsored by AWS , [AWS Machine Learning](#), Coursera Courses.
- Winner of [EasyA x Polkadot Harvard hackathon](#) in Moonbeam Staking DAO track.