

Suhas K M

(571)-237-1142 | km.s@northeastern.edu | [linkedin.com/in/suhaskm](https://www.linkedin.com/in/suhaskm) | github.com/suhaskm-neu

EDUCATION

Northeastern University <i>Master of Science in Information Systems, GPA: 3.76</i>	September 2023 - May 2025 Arlington, VA
Visvesvaraya Technological University <i>Bachelors of Engineering in Computer Science</i>	August 2018 – July 2022 Bangalore, India

EXPERIENCE

Graduate Teaching Assistant - Data Science <i>Northeastern University</i>	January 2025 – May 2025 Arlington, Virginia
<ul style="list-style-type: none">Mentored students build ML pipelines and practice MLOps, from data preprocessing to scalable deploymentsDesigned assignments, helping students think critically about data and math further boosting real-world skillsHeld 40+ teaching hours on regression, classification, and clusteringGuided students on hyperparameter tuning, overfitting prevention, and evaluation metricsCrafted containerization templates helping students master Docker and MLOps	
Cloud Engineer Intern <i>Safecast</i>	May 2024 – January 2025 Arlington, Virginia
<ul style="list-style-type: none">Volunteered to design and document AWS architecture, leading to a significant boost in open-source contributionsOptimized AWS costs by analyzing resource utilization, achieving a 15% reduction in monthly cloud expensesMonitored and upgraded PostgreSQL, ensuring RDS versions stayed compliant with AWS support timelines	
Software Engineer <i>Runway Proptech LLC</i>	September 2022 – August 2023 Bangalore, India
<ul style="list-style-type: none">Led a Python-based AWS Serverless Architecture, cutting API costs by 30% and enhancing API scalabilityDeveloped 15+ Spring Boot/MVC and cloud serverless APIs, improving accessibility and ease of useAccelerated ETL pipeline for Salesforce CRM data migration, boosting speed by 35% with a fail-safe designImproved query performance for ACID compliance, reducing latency and enhancing data securityEnhanced client retention and reduced churn by 15% with AWS SES for emails triggered based on user activityIncreased operational efficiency by 30% through a Tableau dashboard, enhancing data-driven decision-making	
AI/ML Research Engineer <i>Visvesvaraya Technological University</i>	January 2022 – July 2022 Bangalore, India
<ul style="list-style-type: none">Researched the use of neural networks for AI-driven waste management, optimizing classification techniquesPerformed in-depth data analysis on multiple models, refining methodologies to enhance predictive accuracyDeveloped waste classification prototypes with 83% accuracy, integrating ML, IoT, and Cloud for monitoring	


TECHNICAL SKILLS

Programming Languages: Java, Python, SQL, R, Go, Shell, Object-Oriented Programming, Backend, Design Patterns
Frameworks/Tools: Spring, MVC, Microservices, React, FastAPI, Flask, Apache Spark, Kafka
Databases: PostgreSQL, MySQL, MongoDB, NoSQL, Oracle Database, Elasticsearch, Redis
Data Science/Machine Learning: PyTorch, scikit-learn, NLP, MLOps, Data Pipelines, Data Analytics, UNIX
Cloud Computing/DevOps: AWS, Google Cloud Platform (GCP), Azure, Serverless (AWS Lambda), Jenkins, GitHub Actions, CI/CD Pipelines, Oracle, Docker, Kubernetes, Terraform, Prometheus, Grafana, ELK Stack
Other Tools: Git, Linux, Tableau, PowerBI, Agile, Scrum, Data Structures, Algorithms, Project Management

LICENSES & CERTIFICATIONS

AWS Certified Solutions Architect - Associate (SAA-C03) | Amazon Web Services | *In Progress*
AWS Certified Cloud Practitioner (CLF-C02) | Amazon Web Services
Databricks Generative AI and Lakehouse Fundamentals | Databricks

PROJECTS

- GeoGuard: Global Threat Detection System AI** | *Geospatial Mapping, Kafka, Tableau* |  November 2024
- Designed GeoGuard, a real-time global threat detection app integrating geospatial analytics, AI models, and tools like Kafka and Tableau to monitor geopolitical shifts and display actionable insights on interactive world maps
- SafeHomeSeeker - aiXplain** | *Generative AI, Vector Databases, Cloud Architecture, Maps* |  October 2024
- Won [hackathon](#) by developing an AI-powered app that aggregates housing data and generates property descriptions using Pinecone and OpenAI, with interactive maps displaying safety and amenities
- QueryMaster-AI** | *LLM, Prompt Engineering, LangChain, SQLite, Gemini Pro, Docker* |  January 2024
- Built an AI-powered app integrating Google's Gemini Pro, achieving over 90% accuracy in translating natural language into SQL queries, enhancing data accessibility for non-technical users
- LoanGuard AI** | *PyTorch, SMOTE, Model Optimization, Financial Analytics* |  March 2024
- Built a Neural Network with PyTorch for loan default prediction, using SMOTE for balanced datasets and optimizing metrics to improve accuracy and support loan approvals
- Nutrition Tracker Database System** | *SQL Server, Tableau, TSQL, Data Security* |  April 2024
- Developed a Nutrition Tracking System with SQL Server, Tableau dashboards, and secure handling of user-specific dietary and fitness data
- word2vec Modelling** | *NLP, GENSIM, PyTorch, TensorFlow, CBOW, Skip-Gram* |  April 2024
- Developed Word2Vec models with GENSIM, PyTorch, and TensorFlow, optimizing CBOW for analogy tests and cosine similarity while enhancing scalability for large datasets under constrained resources
- Hotel PricePro** | *Forecasting, Analytics, XGBoost, EDA, Feature Engineering* |  December 2023
- Built a price prediction model for hotel ADR using XGBoost, EDA, and hyperparameter tuning, achieving 71% accuracy and improving performance through feature selection techniques
- Benchmarking CNN Architectures on MNIST** | *CNN, PyTorch, Feature Map Visualization* |  February 2024
- Benchmarked CNN models on MNIST using PyTorch, analyzing Feature Maps, performed Data Augmentation and performance tests across architectures with advanced evaluation metrics
- MatchPoint: The Resume Analyst** | *React, FastAPI, AWS ECS, Docker, Llama Model* |  December 2024
- Developed a resume scoring app using React, FastAPI, and Llama models, with Dockerized deployment on AWS ECS for scalability, providing real-time NLP-based feedback and improvement suggestions
- Children's DayCare Management System** | *SpringBoot, Java, JDBC, ORM, JavaxMail* |  December 2023
- Built a backend web app to track vaccine schedules for children, integrating JavaxMail for notifications and ensuring HIPAA-compliant data sharing in the VFC program

LEADERSHIP, VOLUNTEERSHIP & EXTRACURRICULAR ACTIVITIES

Organized Tech Meetups and Mentored Underprivileged Students in Python

Northeastern University

October 2023 – November 2024

- Organized multiple student-led tech events to foster knowledge-sharing in AI and programming
- Collaborated with faculty and student groups to build a better collaborative community with weekly meetings

Head of Student Developer Club and Soccer Team Captain

Visvesvaraya Technological University

May 2019 – August 2022

- Captained the soccer team to regional finals, enhancing teamwork and leadership skills
- Organized community service initiatives, including coding workshops

Community Service Volunteer

Bangalore Rural Development Organization

January 2018 – May 2023

- Organized literacy programs, benefiting over 50 underprivileged students in rural areas
- Conducted computer literacy workshops focusing on MS Office and basic programming concepts