

# Khushi Mehta

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## Education

**M.Tech, AI** | Indian Institute of Science (IISc), Bangalore | AIR-152 GATE DA | CGPA: **7.5** /10 2024-Present  
**B.Tech, IT** | Birla Vishwakarma Mahavidyalaya (BVM), Anand | CGPA: **7.45**/10 2018-2022  
**Class 12<sup>th</sup>** Percentage: **79.3** 2017-2018  
**Class 10<sup>th</sup>** Percentage: **90.5** 2015-2016

## Technical Skills

**Programming Languages:** Python

**Experience With:** Machine Learning (CNN, LSTM, RNN), Time Series Analysis, Constrained Optimization

**Tools and Frameworks:** Tensorflow, Python, AWS Sagemaker, Docker, SQL

## Courseworks

Stochastic Models and Applications | Computational Methods of Optimization | Machine Learning for Signal Processing | Introduction to Natural Language Processing

## Industry Experience

**Fitterfly Healthtech Pvt Ltd.** India | **Full Time** (Data Scientist / RnD) 2022-2024

- Responsible for designing, implementing and deploying machine learning solutions for healthcare industry applications like blood glucose monitoring, and diet recommendation systems

**vCGM (Virtual CGMS (Continuous Glucose Monitoring System))**

- Developed an **autoregressive** model for **predicting blood glucose** levels, considering the food, exercise, and medication **time series data** of past 3 hours
- Utilized a combination of **stacked LSTM and CNN models in TensorFlow** for real time, time series prediction
- Containerized the model using **Docker** and uploaded on **AWS Elastic Container Registry**, which is then deployed on **AWS Lambda** and being used as an **API** in the application

### Personalized Diet Plans

- Singlehandedly **designed personalized meal recommendation system** based on user preference and health goals.
- Analyzed and implemented **Genetic Algorithm** based **multi-objective optimization** in **pymoo** for meal recommendation
- Deployed the model using **AWS ECR** and **Docker** and exposed api to **yellow.ai** for real time prediction with a net **latency of 4 seconds** per recommendation
- Recommendation system ensured **recommended dietary allowances (RDAs)**, significantly reducing the time required by the nutritionist team to create personalized diet plans.