

BHAVYA MEHTA

B.Tech in Computer Engineering
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EDUCATION

- Veermata Jijabai Technological Institute (VJTI)** **2019-2023**
Bachelor of Technology - Computer Engineering | **CGPA: 9.42** *Mumbai, India.*

WORK EXPERIENCE

- Software Engineer** **Oct'23 - Present**
Kelp Global *Angular, D3.js, Node.js, Nest.js, Go, PostgreSQL | Mumbai, India*
 - Delivered **30+ user stories** and comprehensive full-stack features for the product using Angular, Nest.js & PostgreSQL.
 - Optimized client-side build time by 75%**, implementing Angular Micro Frontends with Dynamic Module Federation.
 - Engineered an Export to Excel and Compare Peer feature capable of efficiently processing **80,000+ rows of data**.
 - Reduced cross-module component load time by 52%**, replacing amCharts with ECharts, enhancing user experience.
 - Transformed complex financial and value bridge tabular data into intuitive, graphical insights using **D3.js**, including Curved Sankey, Nested Treemaps, Waterfall, and Organizational Charts, **improving data-driven decision-making by 20%**.
 - Migrated **terabytes of data** from SQL tables on Azure to **Parquet on AWS**, **reducing storage costs by 40%**.
 - Automated dependency management using a custom GitHub Dependabot, saving **15+ hours of manual work monthly**.
 - Played a **dual role** as a **Product Manager and Software Engineer**, defining user stories based on product gaps, interacting directly with clients to gather feedback, while simultaneously driving full-stack development.
 - Led sprint cycles as a **Sprint Master**, managing a team of 10 developers along with testing cycles & production releases.
 - Recognized as **Best Performer for Q3 2023** for outstanding contributions to product development & client satisfaction.
- Research Assistant** **Oct'22 - Mar'23**
Indian Institute of Technology (IIT) Delhi *Pytorch, Tensorflow | Remote*
 - Engaged in Conditional Prompt Learning for **Vision-Language Models**, converting context words to learnable vectors.
 - Conducted a comprehensive survey of existing methodologies, including Context Optimization, Conditional CoOp, & TPT.
 - Replaced feedback aggregations with **Multi-Headed Self-Attention** model to boost **learning rate by 2%**.
 - Novel approach **beats SOTA models** on StanfordCars, Flowers102 and other datasets with an accuracy of **97%**.
- Software Developer Intern** **May'22 - Jul'22**
JP Morgan & Chase *Java, Springboot, React | Mumbai, India.*
 - Implemented a **Certificate Management Tool** that recursively validates .jks files within internal server applications.
 - Optimized keystore management by caching paths and passwords in place of files, **reducing server storage by 50%**.
 - Automated certificate expiry monitoring with **real-time UI updates and emails**, cutting manual tracking by 80%.
 - Deployed tool enhanced system reliability & **minimized production disruptions** by 20%.

PROJECTS

- Dyce & Dyne** | Full Stack Web Application *Embedded Javascript, Node.js, Express.js MongoDB*
Designed a modern day food ordering website which implements algorithms like **A star, Minimax and alpha-beta pruning** for 3 game based wallets instead of Promo codes. Solved the **Traveling Salesman Problem** using **Ordered Crossovers** with mutation at a **rate of 0.05%**. Used Mapbox APIs to show the optimal route for delivery considering real time traffic.
- HisabKitab** | Full Stack Web Application *Embedded Javascript, Node.js, Flutter, Dart, Google Firebase*
A systematic user centered platform for local vendors to create, store, manage and download structured invoices as PDF for all transactions fed. Provides **multi-chart statistical analysis** for monthly sales and purchases, along with fuzzy search functionality for easier document navigation.

SKILLS

- Languages : C, C++, Python, Java, Go
- Frontend : HTML, CSS, Javascript, JQuery, React, Angular, Rest APIs.
- Frameworks : Node.js, Express.js, Nest.js, SpringBoot, Flask, TensorFlow, Keras.
- Databases : MySQL, PostgreSQL, MongoDB, Google Firebase.
- Concepts : OOPs, OS, DBMS, System Design, Design Patterns.

PUBLICATIONS

- 19th Conference on Computer Science and Intelligence Systems FedCSIS 2024 (Core Rank B)**
B. Mehta, Kush Kothari, Reshmika Nambiar, Seema Shrawne, Toxic Molecule Classification Using Graph Neural Networks and Few Shot Learning. Communication Papers of the 19th Conference on Computer Science and Intelligence Systems, M. Bolanowski, M. Ganzha, L. Maciaszek, M. Paprzycki, D. Ślęzak (eds). ACSIS, Vol. 41, pages 105–110 (2024) [Link]
- 2023 IEEE 24th International Conference on Information Reuse and Integration for Data Science (IRI)**
B. Mehta, V. Kharche and S. S. Udmale, Accelerating the Search for Stable Full Heusler Compounds through Machine Learning. 2023 IEEE 24th International Conference on Information Reuse and Integration for Data Science (IRI), Bellevue, WA, USA, 2023, pp. 160-165, doi: 10.1109/IRI58017.2023.00034. [Link]