Mohammed Husamuddin

Business Transformation with Data for Digitalization

Analytical Computer Engineering student with expertise in technical solutions, process automation, and data-driven decisionmaking. Skilled in developing scalable tools and dashboards to enhance efficiency and provide actionable insights. Proficient in data analysis, software engineering, and visualization, with a proven ability to optimize processes and drive cost savings.

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Work Experience

Software Engineering Intern

Brio Tech View LoR ♂ Certificate ♂

Jul 2024 - Aug 2024

- · Developed a Cloud Pricing Calculator using Azure API, Python, and Streamlit.
- Built a sales lead email generation application, automating 80% of lead generation and boosting sales productivity by 40% with LinkedIn API, GPT-4, and Streamlit (converting codebase to React for production ready environments).
- · Integrated Google Cloud Platform services, mastering cloud security, IAM policies, and programmatic authentication.

Full Stack Developer & Data Science Intern

PropReturns View Certificate ♂

Jun 2023 - Aug 2023

- · Designed and implemented a comprehensive ETL process using Python and regex, creating a robust data pipeline for webscraped information.
- Developed an image processing web app using OpenCV, Streamlit, and Python, achieving a 50% reduction in image preprocessing time and enhancing workflow efficiency.
- Created reusable UI component library, enhancing developer productivity and improving system architecture.

Founders Office & Business Strategy Analyst

Styx(B2B SaaS) View LoR ☑ View Prototype ☑ Mar 2023 - Jan 2024

- · Designed and developed a security compliance dashboard MVP, increasing valuation by 27% and gaining stakeholders approval.
- · Analyzed financial and operational metrics to identify costsaving opportunities and recommend strategies for revenue growth.
- · Pitched product to local and international investors & presented unit economics(CLV or LTV) and market analysis to stakeholders, contributing to securing \$500,000 in funding, while developing strategies to improve market penetration.

Club Experience

Google Developer Groups Letter, Google ♂ Sep 2023 - Sep 2024

- Expanded chapter to largest campus community (350+ members), managing 26-person team across 5 departments, implementing 3-tier structure, and overseeing 903+ student participation's and certifications.
- Developed and directed 4 internal and community applications/ tools and 40+ long-term assets including automation scripts and internal web apps, optimizing operations and streamlining overall functioning of GDG in the Dubai region through strategic initiatives and SoP documentation SoP website ☑

Head of Business & Marketing

BITS Motorsports View Certificate ♂

Mar 2022 - Jun 2023

- · Developed BMS Dashboard, digitizing all processes and moving away from traditional systems, sponsorship tracking for team members, using Next.js and React. BMS Dashboard ♂
- Student Council, EMC Technical Head at BITS Pilani Dubai
- UN MCN Fellow, building open source applications for NGO's
- Startup Advisor for E-cell IIT Bombay & BITS Pilani Dubai

Extra Curricular Activities

- Blogging, Designing, Social Work, Content Creation, Sports(Cricket for School Team)
- Creating Content on Social Platforms with over 100,000+ impressions

Skills

Core Competencies Software Development, Business

Development, Machine Learning, Data Analysis, Databases, Cloud Computing,

Business & Finance Economics, Accounting, Market Analysis, Financial Modelling & Analysis, Data

Analysis & Presentation

Technical Skills

Languages

Python, Java, C++, Typescript, JavaScript,

SQL, HTML, CSS

Matplotlib, Pandas, Numpy, Streamlit, **Frameworks**

Flask, Scikit-Learn, OpenCV, Flower(Federated Learning), ROSpy, OpenAl, Hugging Face, ZenML (ML Ops)

NextJs, React, Node.js, MySQL, Firebase, **Technologies**

Vercel, Git, Google Cloud Platform, Azure, Figma, RESTful API, Docker, Prisma, Power BI, Tableau, Excel, Pinecone

Relevant Projects

Founded and developed UniDash, a student-centric platform using Next.js, Typescript, Tailwind and Firebase, consolidating campus resources into a web application that achieved an average of 2100+ daily active users.

Integrated a Al-powered Question Prediction System leveraging BLOOM-560M (Hugging Face Transformers) with a memoryoptimized inference pipeline in PyTorch, enabling real-time academic content analysis

Engineered a geolocation-based university attendance system under the directive of the Academic Dean at BITS Pilani Dubai, utilizing Google Maps, Geo Location, Elevation API, React Native, Kalman Filters and Web Sockets to improve accuracy and reduce administrative workload.

Federated Learning Model for IoT Attack Classification

Designed a **federated learning** model using the flower framework, pytorch to classify 33 types of cyber attacks on edge devices with data privacy

Machine Learning Heart Disease Risk Predictor App

Developed an interactive heart disease prediction web app using Streamlit, Python, and scikit-learn, implementing a KNN classifier to assess disease risk from 13 key health parameters, delivering real-time personalized medical insights.

Image Processing for Crack Detection using XFEM, Machine Learning & Deep Learning Techniques ra

Engineered XFEM-based datasets with diverse configurations and trained VGG16 CNN models using transfer learning and supervised techniques to construct crack paths, achieving high accuracy while reducing computational costs of simulations.

Education

BITS Pilani, Dubai Campus | B.E. Computer Science

Coursework: DSA, Database Systems, Machine Learning, AI, Data Mining, Robotics, Object Oriented Programming, Finance