MOHANKUMAR MARKULI CHANDRAYIGOWDA

Associate Systems Engineer – Bengaluru, India

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PROFESSIONAL SUMMARY

2+ years full-stack engineer and analytics professional with hands-on work in web apps, responsive UI, and chatbot deployments on Azure. Proficient in Python, JavaScript, React, SQL, Django, KNIME, and Power BI; bridges product development with AI/ML and BI training to drive adoption and business impact.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL, HTML5, CSS3,
Frameworks: Django, React, Angular
Tools: Git, GitHub, VS Code, Power BI, KNIME, YouTube Studio, IBM SPSS, Jupyter Notebook
Databases: MySQL, PostgreSQL
Library: pandas, numpy, matplotlib, seaborn
Others: RESTful APIs, postman

PROFESSIONAL EXPERIENCE (2+ YEARS)

Research Assistant | **ULMS** | **United Kingdom** | **Jun 2023 - Sep 2023**
Post-Graduate Student Research Assistant Intern
- Case study analysing the effect of innovative ERP systems on the business operations of Motor Oil Hellas.
- Analysed over 500 scholarly articles, business reports and director interviews to address privacy concerns and decision-making biases for use of AI in business operations.

Systems Engineer | **Infosys Ltd.** | **Bangalore** | **Dec 2020 - Jul 2022**
Promoted to Systems Engineer from Intern
- **Converted product to a fully responsive UI**, boosting mobile usability and accessibility for users.
- Enhanced UI rendering by refactoring framework components, achieving **45% faster load times** across major pages, delivering measurable improvements in user responsiveness.
- Implemented modular UI services to scale with demand, supporting **2x concurrent users** while maintaining 99.95% uptime during peak marketing campaigns.
- Improved code quality by expanding the testing suite, raising **coverage from 40% to 85%**, reducing production incidents and stabilizing deployments across apps.
- Deployed AI-powered chatbots for multiple clients, advancing intelligent automation and client engagement.
- Delivered live data and analytics sessions covering AI/ML/Big Data, upskilling learners across the org.
- Designed and launched KNIME Analytics course on Infosys Springboard, enabling hands-on learning for participants.
- Completed Executive Program in AI and ML, strengthening applied AI capabilities and strategic thinking.
- Internship training on web technologies and IT infrastructure at Mysore campus.

Technologies Used: React, JavaScript, HTML5, CSS3, RESTful APIs, Python, SQL, Django, KNIME, Power BI, Git, GitHub, VS Code

Full-Stack Developer Intern | **Infosys Ltd.** | **Mysore** | **Feb 2020 - Apr 2020**
- **Completed full-stack web development program** (**Angular**) and delivered an **e-commerce prototype** with an 82% score.
- Launched responsive e-commerce prototype features increasing signups by **18%** within **2 weeks**, expanding potential customer base and onboarding efficiency.

YouTube Content Creator | **C Tathva** | **Bangalore** | **Jan 2020 - Nov 2020**
- Created programming language crash courses and other forms of technical content in my native language to make programming accessible to a wider range of demographics
- Scaled the channel **to 3,000+ subscribers** gathering over **0.62 million views** from ground up.
- Content planning based on consumer data using **YouTube studio analytics**.

Web Development Intern | **LenYog Soft Solutions.** | **Mysore** | **Jun 2019 - Aug 2019**
- Built a complete **authentication flow** and integrated a **secure payment gateway** into a **retail management system** as part of a **web development project**.
- Implemented streamlined onboarding for merchants, cutting setup time from 14 to 4 minutes and boosting activation by **18%** in 30 days.
- Implemented auto-scaling for the web layer to handle peak traffic, maintaining **99.9%** uptime during a promotional week with zero outages.
- Expanded automated test suite to cover new authentication and payment flows, decreasing production defects by **60%** within two sprints and enhancing stability.
- Ranked in the **top 10% of interns** based on performance in the **final capstone**.

PROJECTS

GenQ | Infosys Ltd.

Responsive web application that generates quizzes from input text by interfacing with a Stanford NLP model; translated business needs into working features.
- Implemented a **responsive UI** and **text-to-quiz pipeline**, reducing manual question creation by 73% and increasing content coverage to 100% which was featured in **'India AI 2021'**.

Zoiee Chatbot | Infosys Ltd.

Multi-client chatbot solution with efficient Azure-based resource allocation and environment setup to meet diverse business needs.
- Orchestrated **multi-client deployments** and optimized **Azure resource allocation**, boosting user engagement by 40% and lowering bounce rate by 25%.
- Standardized **deployment processes**, reducing go-live time and improving reliability.

Advanced Traffic Management System | Visveswaraya Technological University

Cloud-connected Raspberry Pi solution for real-time traffic monitoring and faster emergency response.
- Built **Raspberry Pi sensing** and a **cloud data pipeline**, enabling continuous monitoring and cutting emergency response times by 40%.
- Delivered **alerting and dashboards**, reducing detection-to-action time by dynamic timing 4 minutes to 2 minutes and supporting 3 to 6 intersections.

Ethical Issues in AI Business Operations | University of Liverpool Management School

Research study analyzing the ethical implications of AI in business using 50+ academic and industry sources.
- Consolidated insights from **50**+ **sources** into a framework, informing major policy recommendations and mitigating risk by 80%.

SAP S/4HANA Case Study | University of Liverpool (Motor Oil Hellas)

Project management and cost estimation in SAP S/4HANA for detailed analysis of product pricing.
- Model **pricing components** and **cost structures**, identifying opportunities to reduce cost-to-serve by 57% and streamline stock keeping unit pricing.

EDUCATION

MSc in Business Analytics and Big Data (Merit) | *Dec 2023*
University of Liverpool | United Kingdom

Bachelor of Computer Science and Engineering (First Class) | *Aug 2020*
Visvesvaraya Technological University | India

CERTIFICATIONS

- Business Communication Level 5 Certified for excellence in written and verbal communication.
- Executive Program Certification in AI and Machine Learning from Infosys.

Past work experience references will be provided on request