MUKESH ANAND G | AI ENGINEER

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PROFESSIONAL SUMMARY

Highly motivated and results-oriented individual with a strong background in Artificial Intelligence and Data Science and a passion for leveraging AI & data analytics to drive actionable insights. Eager to explore the limits of the world and the reality. Proficient in Python, AI, NLP techniques, and machine learning algorithms. Strong DSA Skills and problem-solving skills and a passion for continuous learning.

SKILLS

- **Python:** Proficient in Python programming and experienced with NLP libraries such as transformers

- **Mathematics:** Solid foundations in Linear Algebra, Optimization & Data Structures

- **Communication:** Excellent verbal and written communication skills, demonstrated through group projects and presentations

- **Teamwork:** Collaborative and able to work effectively in a team environment, demonstrated through group projects and extracurricular activities

- **Languages:** Solid Knowledge with more than 8 Programming Languages and Strong foundations with more than 6 other languages.

- **DSA:** Proficient with Data Structures and Algorithms

- **Cloud and Cloud Security:** Solid Knowledge in Documentation, Vulnerability & Remediation Assessment, Amazon Web Services, Virtualization, Firewalls and Network Security.

- **AI Proficiency:** Proficient in AI Modelling and experienced with Multiple modelling and structuring

- **Full Stack Dev:** Basic UI/UX Design Knowledge, ElastiCubes, In-Chip Analytics

- **Programming:** Strong programming abilities, including Python Scientific Stack (Numpy, Pandas, Scikit-Learn)

- **Machine Learning:** Familiarity with Machine Learning techniques, particularly Deep Learning with Pytorch/Tensorflow

- **Problem Solving:** Strong analytical and problem-solving abilities, developed through coursework and personal projects

- **Fast learner:** Fast learner with a relentless passion to learn, own & deliver customer delight

- **Angular:** Strong Skills in Angular and Familiar with the extended libraries. Experienced with 14 Hands-On Projects.

- **Framework:** Proficient in more than 19 Frameworks, 12+ Tools, 7+ Testing tools.

- **DevOps:** Strong background in continuous integration management tools such as Jenkins, Apache Maven and Apache Ant

- **Version Control Master:** Solid knowledge with hands-on experience in various version controls such as GIT, PerForce.

- **Agile Skills:** Familiar with Agile, GIT, Scrum, Risk Mitigation.

MYFASEA AI PRIVATE LIMITED

Software Developer Trainee | January 2024 - March 2024

- Oversee and maintain core API services and Database.
- Develops new data scraping mechanism and implements the rotatable proxies.
- Collaborate with senior developers to update the No-SQL Database structures.

AL-ZIRA TECHNOLOGY PRIVATE LIMITED

AI Engineer | July 2023 - Present

- Built and maintained multiple AI Models to predict the nanostructures and reactions.
- Created and tested various AI Tools for the internal usages.
- Created guides to document the processes and maintain the AI Continuity.

AL-ZIRA TECHNOLOGY PRIVATE LIMITED

Research Intern | June 2023 - July 2024

- Researched on various ML Techniques to study the chemical reactions.
- Developed and deployed an chatbot with the Company's data and LLM for the Board Members.

KPMG AU

Data Analytics Intern | May 2023 - July, 2023

- Provided Data Visualization to empower business with effective insights.
- Collaborate with senior analyst to visualize the critical data for the board.
- Built and maintained an Custom Analytics Dashboard for the multi-disciplinary data.

TATA IQ

Data Visualization | April 2023 - July 2023

- Completed a simulation involving creating data visualizations for Tata Consultancy Services
- Created visuals for data analysis to help executives with effective decision making.
- Prepared questions for a meeting with client senior leadership

ORBITX INDIA AEROSPACE

Researcher | March 2023 - January 2024

- Worked on Reusable Launch Vehicle Guidance System.
- Researched on AI Based Guidance system for the Vehicle Steering through Obstacles.
- Created an model to identify various cosmic obstacle and re-routing decision maker.

EDUCATION

2021 - 2025 | Panimalar Institute of Technology
Bachelor of Technology - Artificial Intelligence and Data Science

CORE COMPETENCIES

- Programming languages
- Code structure & architecture
- Web performance optimization
- Back-end Development
- DSA
- Machine Learning

- AI and ML Models
- Agile software development
- Test driven development
- Source control
- DevOps
- Data Analytics

Chatbot Development:

- Developed an intelligent chatbot using NLP techniques to handle customer inquiries.
- Implemented a retrieval-based model and integrated it with a chat interface.
- Improved user engagement and satisfaction by providing prompt and accurate responses.

Question Answering System:

- Built a question-answering system using a BERT-based model to provide accurate responses.
- Fine-tuned the model on a large dataset of domain-specific questions and answers.
- Achieved high accuracy and demonstrated the system's effectiveness in handling complex queries.

Movie Review Sentiment Analysis:

- Developed a deep learning model using LSTM to classify movie reviews as positive or negative.
- Preprocessed and cleaned a large dataset of movie reviews using NLP techniques and libraries.
- Achieved an accuracy of 90% on the sentiment classification task.

Customer Feedback Analysis Dashboard:

- Created a web-based dashboard to analyze and visualize customer feedback data.
- Implemented text preprocessing, sentiment analysis, and topic modeling techniques.
- Developed interactive visualizations to provide actionable insights to product development teams.

AI-NotePad Application using Angular:

- Created a AI powered Notepad Application Using Angular.
- Implemented text preprocessing, Auto Completion, Voice-Enabled Typing.
- Developed Text to Mindmap Visualization to provide insight about the notes.

AI Based Autonomous Military Drone to Monitor Border Areas, Identify Risks, and Communicate Threat Information

- Created a AI powered Autonomoud Drone.
- Implemented to Monitor Border areas to Identify Risks and Communicate Threat.

AI Powered Cryptocurrency value Tracker :

- Developed a Crypto Currency Value tracker with built-in AI to monitor.
- Built using angular and able to pull all the current coin values into one location.
- Updating it with automated Trading System tailored for Crypto Currency with Risk Mitigation

AI Enabled Spotify Clone

- Similar or Clone of Spotify with Angular but with AI Assistant
- Can Customize your own player without platform ads using the Soundcloud API.
- Can import songs and AI Assistant create playlists, make favorites, by following users patterns.

AI Based Space Exploration Vehicle with Self-navigation and anomaly detection and intrusion

- Built AI Exploration Vehicle With AI Features
- Able to Self Navigate by reading the different terrains and Detect Anomalies. Similar to the Wall-E and EVE Robots from fiction

AI Powered Mobile Application for Virtual Doctor

- Built AI Powered Mobile app to consult the AI Doctor.
- Built Using Angular and Able to diagnose the problem with the user input based on trained models.
- Tested in Local Random sampled group with a guidance of a Trained and certified Doctor.

Automated Code Generation Web-Application:

- Built an AI Powered web application which is powerful to generate code for the user's problem input statement.
- Can currently handle and generate codes in Python and Java
- Efficient enough to rewrite itself.

Ava - The Lifelike Emotional Intelligence Humanoid

- Built an Lifelike Emotional Intelligence Robot
- Can currently handle multiple emotional inputs and performs relatively.
- Efficient enough to maintain the self -balance.

PUBLICATIONS

Smarticulture: Novel Farming Technique to Achieve Automation in Farming and Higher Crop Yield with Aid of Artificial Intelligence.
International Journal for Research in Applied Science & Engineering Technology · Jun 20, 2022

AI Based Smart Wearable Safety System for Women to Fight Against Sexual Assault And Harassment With IoT Connectivity
AIP Conference Proceedings · Jun 20, 2022

IOT Based AI Powered Brainwave Controlled Framework for Smart Home Application and Next-Gen Automation
AIP Conference Proceedings · Jun 20, 2022

Project F.R.I.D.A.Y : A Novel AI-Powered Multilingual Voice Assistance System
AIP Conference Proceedings · Jun 20, 2022

StyleForge: Fashion Synthesis Through Adversarial Networks
AIP Conference Proceedings · Jun 20, 2022

HONOURS & AWARDS

Tech-Pitch Winner : National Level Technical Symposium issued by St. Joseph Institute of Technology · Sep 2022

Best Paper Award : PECTEAM 2K22
issued by Panimalar Engineering College · Sep 2022

Young Innovator Award 2023
issued by Durgapreneur · 2023

Codegoda 2023
issued by Agoda · 2023

Flipkart Grid 5.0 - 2023
issued by Flipkart · 2023

Best Project Award : PECTEAM 2K24
issued by Panimalar Engineering College · Feb 2024

Best Project Award : IEEE MAS SUMMIT 2024
issued by IEEE · Mar 2024

Social Links and Contact

Social Links :

LinkedIn : https://www.linkedin.com/in/mukesh-anand-b2790b24b/

LeetCode : https://leetcode.com/u/Mukeshanandg/

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