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| **Jibran Shahid**  **Expert Engineer in Data Analysis and AI Enthusiat**  **Paul-Lincke Str.9, 38442, Wolfsburg | +49 (0) 176 355 95 366**  **E-Mail:** [**jibranshahid91@gmail.com**](mailto:jibranshahid91@gmail.com)  **Profile:** [**LinkedIn**](https://www.linkedin.com/in/jibran-shahid-21332b49/)**,** [**Xing**](https://www.xing.com/profile/Jibran_Shahid4/cv)  **Driving License: Class A (Motorcycle) und B (Car)**  **Nationality: German**  **Date and Place of Birth: 15.01.1991, Pakistan**  **Guiding Principle**  ***Self-taught individuals are driven by a relentless curiosity and practical experience. They bring an innovative mindset to solving problems, learning directly from real-world challenges rather than textbooks.*** | **A person in a suit  Description automatically generated** |
| **Professional Experience**    **AI Projects**   * **LiGA GPT Assistant Chatbot**   **Developed an AI-driven chatbot using Streamlit and hosted on Render.com to assist expats in Germany with answers on essential topics like insurance, taxes, and mobile services. The bot provides hyperlinks and blog post recommendations, guiding users to in-depth resources on liveingermany.de, delivering a seamless, value-added user experience.**   * **Automated Social Media Video Creation with DALL-E and Python**   **Engineered a Python-based system for automated video creation and social media publishing. The process integrates DALL-E images and TTS narration to produce engaging videos, including timed subtitles, for platforms like Facebook, Instagram, X, YouTube, and TikTok. Content is dynamically sourced via Google Sheets API, enhancing automation and efficiency in social media management.**   * **Automated Blogging and SEO Optimization**   **Built an automated content optimization and republishing bot using the OpenAI API and REST API for WordPress. The bot scrapes existing blog content, rewrites and optimizes it for SEO, and republishes it with new meta data. This solution enhances content reach and ranking on search engines, driving greater organic traffic and visibility for the website.**  **Expert Engineer for Data Analysis / Ferchau Automotive GmbH**  **April 2023- October-204**  **Wolfsburg, Deutschland**   * **High-Voltage Network and Commercial Vehicles: Development of high-voltage electrics for MEB (Electrical Architecture) and MQB (Modular Transverse Matrix) for a service provider of Volkswagen AG.** * **Data Analysis and Model Development: Implementation of the ZVEI model with MATLAB Simulink/Simscape for precise temperature profile calculation for specific current profiles.** * **Strategic Data Analysis: Handling of design and assurance concepts to ensure optimal performance and safety standards.** * **Simulations and Data Interpretation: Conducting comprehensive simulations for traction power and charging lines, including battery systems and power electronics (PWR), with a focus on data-driven decision-making.** * **Presentation of Results: Utilizing dynamic Excel tables and compelling presentations to showcase analysis results and identify optimal solutions.**   **Researcher / Software Developer / Fraunhofer ISE**  **September 2017 - March 2023**  **Freiburg, Deutschland**   * **PV Model Development with MATLAB and Simulink: Development and support of scientific tools for simulating various physical models of photovoltaic production.** * **Scientific Tool Design and Development: Designing new scientific tools with UML diagrams in collaboration with cross-functional teams.** * **Agile Development: Development of model-based tools in an agile environment.** * **Simulation of PV Production Processes: Development of applications for simulating various PV production processes and annual kWh yields of PV modules.** * **Cross-Platform Programming: Using Python and libraries to integrate with MATLAB development.** * **Creating Roadmaps and Specifications: Responsible for roadmaps, specifications, bug documentation, and simulation data analysis.** * **Incident Management and Ticketing: Handling issues via the Redmine ticketing system.**   ***Student Assistant / Photovoltaic Production Department / Fraunhofer ISE***  **June 2016 - December 2016**  **Freiburg, Deutschland**   * **UX Improvement in Simulation Tools: Responsible for UI concepts to enhance user experience.** * **Function Testing and Verification: Development, testing, and verification of functions to support the development of industrial tools.** * **Software Licensing: Implemented an encrypted AES-based model to restrict use to a single computer.**   ***Student Assistant / Electrical Measurement Technology Department / University of Freiburg***  **Nov 2015 - Nov 2016**  **Freiburg, Deutschland**   * **Design of a Wireless Ultra Low Power Network: Used Altium Designer, LT Spice, Circuit Maker.** * **Prototyping and Testing: Assembly and testing of prototypes, creation of test reports.** * **PCB Design and Testing: Designed and tested the PCB of the final prototype, comparison with the prototype.** * **Arduino and Xbee Project: Implementation of a data acquisition system for gas sensors on a DIY drone.** | **Language**  **Englisch: Proficient (C1)**  **German: Fluent (B2)**  **Urdu: Mother tongue**  **Hindi: Mother tongue (spoken only)**  **Softwares**  **MATLAB, Simulink/Simscape**  **LAB View, Octave, Anaconda, Visual Studio, AutoCAD, GitLab, PVSyst. Redmine, Jira (Kanban / Scrums), Notes, Microsoft Office,**  **Programming Languages**  **Python, C++**  **C#, HTML, SQL, R, VB**  **Certification**  **Career Essentials in Generative AI by Microsoft and LinkedIn (May 2024)**  **Awards**  **Winner of Freiburg Hackathon June 2017: Developed an intelligent device control to measure and control standby device energy costs, saving electricity.**  **Workshop**  **Successful Project Management**  **ISE-SEMINAR, Freiburg**    **Electrical Software Altium Designer, LT Spice, Circuit Maker**  **Publications**  [**A Multidimensional Optimization Approach to Improve Module Efficiency, Power and Costs**](https://www.researchgate.net/publication/328066416_A_Multidimensional_Optimization_Approach_to_Improve_Module_Efficiency_Power_and_Costs)**“**  **EUPVSEC 2017, Brussels, Belgium**  [**Cell-To-Module (CTM) Analysis for Photovoltaic Modules with Cell Overlap**](https://www.researchgate.net/publication/346392951_Cell-To-Module_CTM_Analysis_for_Photovoltaic_Modules_with_Cell_Overlap)  **PVSEC30 - 2020, Jeju,**    **Hobbys**  **Hiking, Boxing**  **Biking, Blogging**  **Automocation Projects using AI models like ChatGPT, Claude AI** |
| **Freelancing Projects**    **C# Based POS System for Local German Clothing Stores**   * **Technology: Development of a Point of Sale (POS) system based on the .NET framework.** * **Database Management: SQL database deployed on Azure services to manage daily sales data, inventory, and reports.** * **Features: Manages daily sales data, inventory, and generates detailed sales reports.** * **Client Benefit: Enhanced efficiency and accuracy in managing sales and inventory data for local clothing stores in Germany.**   **Education**    ***M.Sc. Renewable Energy Engineering and Management / University of Freiburg***  **October 2014 - August 2017**  **Freiburg, Deutschland**  ***Specialization: Energy systems technology, PV manufacturing and components, SmartGrids, and energy informatics.***  ***Master’s Thesis: Parametric method to increase cell-to-module (CTM) efficiency and performance (in collaboration with Fraunhofer ISE - Jan 2017 - August 2017)  (in Zusammenarbeit mit Fraunhofer ISE - Jan 2017 - August 2017)***   * **Created a pseudo-summary, Gantt chart, and network diagram for thesis structure** * **Literature review on optimization algorithms like Particle Swarm, Nelder Mead, Interior Point Method, etc.** * **Developed a parametric optimization model for the existing CTM model using various algorithms** * **Benchmarking algorithms based on accuracy and computational performance to achieve desired results in cell-to-module analysis**   **B.Sc. Electronics Engineering / Iqra University**  **Jan 2010 - Jan 2014**  **Karachi, Pakistan**   * ***Specialization: Control systems, power electronics, digital communication with FPGA.*** * ***Final Project: Developed an autonomous shopping cart with Arduino, infrared receivers, and ultrasonic sensors.*** |