

SUMMARY

A passionate and innovative individual with a Master's degree in Computing Science and a strong foundation in Information Technology. Demonstrated expertise in developing applications, predictive models, and web solutions utilizing advanced technologies such as machine learning, Python, and SQL. Highly interested in interdisciplinary research aimed at optimizing complex systems, with a particular focus on healthcare. Skilled in problem-solving, team collaboration, and delivering high-quality results under pressure. Committed to advancing academic research and leveraging technology to drive impactful healthcare projects and research initiatives.

PROJECTS

Designing Mental Wellbeing App for Cognitive Disabled People

- Developed a mental health app using Flutter and Dart for individuals with cognitive disabilities.
- Integrated journaling, mood tracking, meditation exercises, and walk tracking features.
- Focused on user-friendly tools to promote mental well-being.
- Customized the app to address the unique needs and abilities of cognitive-disabled users.

Online Assessment Portal

- Created an online assessment portal using Flask and SQL for module leaders to mark assignments.
- Developed a comment section with special privileges for teachers and original posters.
- Enabled features like post and comment deletion by authorized users.
- Streamlined the assessment and feedback process for educators and students.

Website to Guide Developers About Web Usability

- Developed a Flask website to educate new developers on web usability best practices.
- Provided resources and guidelines to improve user experience in web development.
- Focused on key usability principles and real-world examples.
- Aimed to enhance the accessibility and effectiveness of websites created by budding developers.

Website for People's Biographies

- Designed a website using HTML and CSS featuring biographies of influential figures in computer science.
- Highlighted key contributions and historical significance of each person.
- Focused on user-friendly design and easy navigation for readers.
- Aimed to inspire and educate visitors about the pioneers of computer science.

Plantation Based on Air Pollutants

- Analyzed the impact of air pollutants on plant growth in specific areas.
- Utilized Python, SQL, and machine learning to assess environmental suitability.
- Predicted the potential for successful plantation based on atmospheric data.
- Provided insights for making informed decisions about planting in polluted areas.

Mental Health Prediction in Students

- Developed an algorithm to predict suicide risk based on mental health indicators.
- Explored and implemented classification algorithms using Python and SQL.
- Conducted performance analysis to optimize predictive accuracy.
- Aimed to identify and address mental health issues in students for early intervention.

Heart Disease Prediction Using Machine Learning

- Implemented a machine learning model to predict heart disease using Python and SQL.
- Analyzed patient data to determine heart disease likelihood.

- Focused on improving early diagnosis and treatment through predictive analytics.
- Aimed to reduce the risk of heart disease through timely intervention.

Democratization of Automated Testing

- Produced a report on enhancing automated testing by integrating it with other technologies.
- Explored methods to make automated testing more accessible and widely applicable.
- Highlighted the benefits of a generalized approach to automated testing.
- Aimed to broaden the adoption of automated testing in various industries.

EDUCATION

Cardiff University, Cardiff, UK, SEP 2022
Master of Science in Computing Science

Kalinga Institute of Industrial Technology, Bhubaneswar, India JUN 2021
Bachelor of Technology in Information Technology

PROFESSIONAL EXPERIENCE

Technical Engineer OCT 2023 – APR 2024
 British Telecom, Cardiff, UK

- Improved issue solving by 15% thorough system testing to diagnose and resolve hardware and software issues with broadband and landline, using analytical skills and intuition to interpret test metrics.
- Demonstrated exceptional organisational skills in coordinating with cross-functional teams, swiftly determining and addressing complex technical challenges ensuring 95% customer satisfaction showing ability to work under pressure.

Team Member NOV 2022 – OCT 2023
 Greggs, Cardiff, UK

- Managed customer inquiries, resolved issues, and addressed concerns in a professional and friendly manner.
- Decreased customer wait time by 20%, by utilising keen organisational skills to monitor and restock food and beverage items using Greggs planning tool to maintain availability throughout the day.
- Collaborated with team members to analyse daily operational objectives and strategize for seamless customer experiences.

Junior Analyst JAN 2021 – APR 2021
 Capgemini, Remote

- Performed manual QA testing procedures by test scripts, documenting results while identifying and reporting any software defects promptly, resulting in 20% fewer bugs.
- Followed CI/CD practices in the software development lifecycle, actively maintaining and enhancing test cases, test plans, and documentation to foster clarity and streamline the testing process.
- Participated in application development design reviews and provided valuable feedback to improve software quality, resulting in a 15% reduction in post-release issues.
- Documented and reported software defects using JIRA, resulting in a 100% resolution rate within the designated time frame through issue management.
- Collaborated with cross-functional teams to conduct non-functional testing, ensuring the robustness and performance of software applications.

Web Development Intern MAY 2020 – NOV 2020
 Heramba Spices, Remote

- Collaborated within an Agile environment, participating in sprint planning, daily stand-ups, and retrospectives to ensure project alignment with functional requirements and timelines.

- Implemented visual elements to enhance user experience based on design feedback and client requirements.
- Improved user retention by 10 % by analysing user research trends and suggesting changes to existing design processes and performing UI design testing.
- Facilitated comprehensive website testing processes, including UAT and integration testing ensuring functionality, compatibility, and performance across multiple platforms.
- Coordinated in the constant development of the project, ensuring adherence to evolving business continuity goals.

SKILLS

- **Programming & Tools:** Python, Java, Java Script, C, C++, R, MATLAB, Flask, Dart, HTML, CSS, SQL, Pandas, Numpy, Plotly, Seaborn, Matplotlib, Git, GitHub, Selenium, JMeter
- **Data Analysis & Visualization:** Tableau, Power BI, MS Excel, Power Query, Statsmodels, Scikit-learn
- **Software Development:** SCRUM, Jira, Agile methodologies, CI/CD practices
- **Database Management:** PostgreSQL, MySQL, Microsoft SQL Server, SSMS
- **Others:** Automation, Financial analysis, Statistical modeling, Predictive analytics, Advanced MS Excel, PowerPoint

LEADERSHIP EXPERIENCE

- **Dinante Valobasa Oldage Home, Volunteer**
Facilitated regular visits to the local park, providing elderly residents with enjoyable and refreshing outings. Organized engaging fortnightly movie nights, creating a lively and entertaining atmosphere for the residents. Demonstrated strong organizational skills by scheduling shifts for fellow volunteers.
- **Barasat Anweshan Volunteer Teacher**
Volunteered as a teacher for underprivileged children, providing them with educational support and guidance. Nurtured the children's creativity by organizing extracurricular activities, such as drawing competitions and elocution contests. Fostered a positive and inclusive learning environment, empowering the children to explore their talents and develop their skills.