



# AKASH

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Portfolio: <https://voidomin.github.io/resume-website/portfolio/>

## PROFESSIONAL SUMMARY

Data-driven Development Engineer and Business Analyst with hands-on expertise building analytics solutions, optimizing data pipelines, and automating reporting systems. Proficient in SQL, Python, Excel, Power BI, and data visualization. Proven track record of designing h-index clustering algorithms, implementing metrics frameworks, and delivering analytics to 18+ biotech clients. Experience with ETL, dashboard development, REST APIs, JavaScript, React, Next.js, Node.js, and Git.

## WORK EXPERIENCE

### Development Engineer, Merck Life Science, Bangalore

January 2024 – July 2025

- Engineered Bio4C Process Pad—a critical analytics platform serving 18+ clients including Lotte and Syngene, enabling real-time bioprocess monitoring and data-driven decision making.
- Designed and implemented h-index clustering algorithm with elbow curve optimization, reducing computational overhead by 35% and improving data categorization accuracy.
- Developed comprehensive analytics framework integrating REST APIs with SQL-based reporting system, enabling cross-functional stakeholder insights on process efficiency metrics.
- Tech stack: JavaScript, React, Next.js, Node.js, SQL, Python, REST APIs, Git/GitHub

### Research Intern (Student Researcher), Indian Institute of Science (IISc), Molecular Biophysics Dept

2023 – 2024

- Conducted in silico saturation mutagenesis studies using computational molecular biology tools to predict protein variant effects.
- Analyzed protein structures and generated insights on structural stability using PyMOL, AlphaFold, and Rosetta framework.
- Published findings demonstrating novel protein engineering approaches for biotechnology applications.

## PROJECTS

### Param Adventures [\[View Project\]](#)

Full-featured tourism website with responsive design, dynamic content routing, and integrated analytics.

Tech: Next.js, React, TypeScript, Analytics, Responsive Design

### Todo Application [\[View Project\]](#)

Task management application with persistent state and real-time updates.

Tech: React, State Management, User Interface

## SKILLS

SQL, Python, JavaScript, Data Analysis, REST APIs, React, Excel, Analytical Thinking

## EDUCATION

### Masters in Molecular & Cellular Biology

MS Ramaiah University | 2024

Published research on protein engineering

### Bachelors in Biotechnology

Dayananda Sagar University | 2023

State Government Scholarship recipient

## PUBLICATIONS

Published research on protein variant analysis and biotechnology applications

## AWARDS & RECOGNITION

- 3rd Place Hackathon Winner (Merck)
- 1st Place Poster Competition (Dayananda Sagar University)
- State Government Scholarship

## LANGUAGES

English (Fluent), Hindi (Native), Kannada (Native), German (Basic)

## CERTIFICATIONS

- JavaScript Mastery (Udemy)
- Data Analysis & Analytics (Coursera)