SAURABH KUMAR DEY

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SUMMARY

I am an experienced bioinformatician at the Indian Institute of Science (IISC), Bangalore, holding a master's degree in bioinformatics. At the moment, I work with web tools and system design. seeking employment in the IT sector. where I can apply my expertise in software design and customer service.

TECHNICAL SKILLS

Languages

JavaScript with the concepts of Control structures, Functions, Arrays, Objects, DOM manipulation, Regular expressions for validation, event handling, Framework, and libraries such as jQuery, Vue.js and React.

Database

Good understanding of NoSQL **database** (MongoDB) and its integration.
Good understanding of DML, DDL, DQL MySQL and integrating it with JavaScript.

Web Development

Understanding templates, **routing**, DNS configuration, net/http package, serving files, Creating State and Session.
Good understanding of passing values through URL/FORM with Ectype, also with form-file, form-get and form-post and Redirects.
Good understanding of **REST APIs**, https, Json, cookies, and context
Good understanding of code organization with packages and MVC pattern.

Data Analysis

Understanding Microsoft office Skills such as conditional formatting, sorting, and filtering. slide design, animation, and multimedia integration.

Version Control

understanding of Git and GitHub repository.

Operating system

Develop and maintain **shell scripts** and command-line tools for system administration, automation, and monitoring.

WEB PROJECTS

- **CAcnesDB:** A multilevel-modeled computational aid for profiled interactome and targeted characterization in C. acnes KPA171202.
- **PocketDepth:** A Depth Based Algorithm for Identification of Ligand Binding Sites.
- **ResponseNET**: Mining Biologically Relevant Subnetworks through Integration of Protein Interaction Networks and Gene Expression Data.
- **Sitextract:** Extract binding sites from PDB files.
- **FlAPP Scanner**: NRscan is a tool that compares input binding sites to a non-redundant set of binding sites obtained from the Protein Data Bank (PDB) using the FLAPP algorithm.

EXPERIENCE

Project Assistant (1 May 2023 to present)
INDIAN INSTITUTE OF SCIENCE
- Database development for a sequence-annotated proteome included requirements gathering, conceptual design, normalization, application integration, and testing.
- Web server development for tools that run on the internet, as well as frameworks for developing the front-end (client-side) and backend (server-side) components of a web application.

Project Intern (18 January 2023 to 25 April 2023)
INDIAN INSTITUTE OF SCIENCE
- Collated data and manual curation.
- Database management of proteome and database and web development for annotated proteins.
- Proteome Structural and functional Annotation

Campaign Intern (Field) & Trainee (08 January 2020 to 07 April 2020)
SANGAWARI AGROTECH FOUNDATION

- Direct Observation, Participant Observation, and ethnography of farmers
- Qualitative interviews for overcoming lack of data and collecting ancillary data.

EDUCATION

Sri Krishna Arts and Science College (2021 – 2023)
Coimbatore, Tamil Nadu.
Attained MSc Bioinformatics degree.

MATS university (2017 -2020)
Raipur, Chhattisgarh.
Attained BSc Biotechnology degree.

ACADEMIC PROJECTS

- **In silico Characterization of a Hypothetical Protein PPA1678 from *Cutibacterium acnes* KPA171202 reveals potential bioenergetics properties.**
  Location: Indian institute of science Bengaluru (IISC)
  - Database management of proteome and database and manual curation for annotated proteins.
- **Evaluation of In-vitro Antioxidant Activity of *Myristica fragrans* Extract. (**July 2022 – August 2022**)**
  Location: Chhattisgarh council of science and technology
  - Extraction procedure, Fenton reaction, Solution preparation, Spectrometry, Biostatistics.

CERTIFICATE

- in-silico vaccine designing by Biodevour Research Labs.
- The fundamentals of digital marketing by Google digital garage.
- Genetics and next generation sequencing for bioinformatics by Udemy.