Pratik Kumar Rout

Software Engineer

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PROFESSIONAL SUMMARY

Software Engineer and MCA Graduate with practice in Web Development, Java, React, and Next.js, with a strong foundation in SQL and database management. Experienced in building scalable applications with modular architecture and clean UI design. Skilled in the development lifecycle, from designing responsive frontends to implementing efficient backend logic and RESTful APIs.

WORK EXPERIENCE

BPUT COMPUTER CLASSES, SORO - Lab Assistant :
Assisted in managing computer lab operations and supported students in learning core web development and design concepts. Conducted hands-on sessions, maintained lab systems, and mentored learners while promoting accessibility, clean code, and creative problem-solving.

PROJECTS

- **Exam Questions Prediction Model Using Machine Learning:**
  Efficient Exam Question Prediction via ML: Developed a machine learning model, utilising a MySQL database for training data and Visual Studio for development, to predict upcoming exam questions.

- **Krishna-Katha:**
  Immersive Storytelling Experience Engineered a modern, responsive web application dedicated to spiritual literature using React and Next.js. The interface features a distraction-free reading environment with optimised content loading. Leveraged Firebase Cloud Firestore to architect a scalable backend, enabling instant content retrieval and dynamic categorisation of stories.

EDUCATION

Aryan Institution of Engineering & Technology, Bhubaneswar— *MCA*	**Graduated - 2024 (CGPA: 8.65)**
H.K. Mahatab College, Kupari, Balasore— *B. Sc. (Physics)*	**Graduated - 2020 (CGPA: 7.20)**
Talanagar College, Talanagar— *Inter C.H.S.E. Odisha*	**Graduated - 2017 (CGPA: 5.72)**
Biswambhar Nath High School, Talanagar— Matric *B.S.E. Odisha*	**Graduated - 2015 (CGPA: 8.28)**

SKILLS

- Programming languages: Java, Dart, Python
- Web development: React, HTML, CSS, JavaScript
- Framework: Flutter, NodeJS
- Database: MySQL, Firebase
- Tools: VS Code, AI tools, Postman
- Version control: Git & Git hub

CERTIFICATIONS

- Fundamentals of Artificial Intelligence by NPTEL
- Introduction to Internet of Things by NPTEL
- Cloud Computing by NPTEL
- Data Science with Python, SkillUp by Simplilearn