

Sourajit Nayak

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GITHUB | LINKEDIN |

EDUCATION

NIIS INSTITUTE OF BUSINESS ADMINISTRATION
FULL-TIME MASTER OF COMPUTER APPLICATIONS (MCA)
CGPA: 8.57

2023-07-18 - 2025-04-20
Bhubaneswar

UTKAL UNIVERSITY
FULL-TIME BACHELOR OF SCIENCE IN MATHEMATICS
CGPA: 7.43

2020-07-01 - 2023-04-01
Bhubaneswar

CHSE BOARD
FULL-TIME HIGHER SECONDARY CERTIFICATE (SCIENCE)
Percentage: 60.1%

2018-07-01 - 2020-04-01
Jagatsinghpur

HSE BOARD
FULL-TIME SECONDARY SCHOOL CERTIFICATE
Percentage: 81.3%

2017-07-01 - 2018-04-01
Jagatsinghpur

EXPERIENCE

LANDFORCE | EXECUTIVE DEVELOPER

2025-04-01 – Present

Architected and developed enterprise ERP software using React.js, PostgreSQL, and Node.js serving 500+ active users. Built modular component library with 40+ reusable components reducing development time by 60 percent. Integrated complex transactional forms and master data components ensuring 99.9 percent system reliability. Optimized database queries resulting in 45 percent improvement in application response times. Collaborated with cross-functional teams to deliver features ahead of schedule.

EY GDS (AICTE VIRTUAL INTERNSHIP) | FULL STACK DEVELOPER

2024-02-01 – 2024-04-01

Designed and developed comprehensive bus reservation system handling 1000+ concurrent user sessions. Built responsive React.js frontend with 95 percent mobile compatibility and intuitive user interface. Developed secure REST APIs using Django with JWT authentication preventing security breaches. Implemented cloud deployment on AWS achieving 99.8 percent uptime with auto-scaling capabilities. Completed intensive 6-week training program under Edunet Foundation and AICTE.

IBM (VIRTUAL INTERNSHIP) | AI AND CLOUD ENGINEERING INTERN

2024-07-01 – 2024-08-01

Developed and trained machine learning models using TensorFlow and Scikit-learn achieving 94 percent accuracy. Built production-ready Generative AI chatbots using Large Language Models reducing support workload by 70 percent. Utilized IBM Watson Studio and AutoAI platform for automated model building and deployment. Implemented cloud-native solutions with real-time monitoring and automatic scaling capabilities. Gained hands-on experience with advanced AI technologies including NLP and conversational AI.

SKILLS

PROGRAMMING LANGUAGES
LIBRARIES/Frameworks

Python, JavaScript, Java, C, SQL
React.js, Tailwind CSS, Bootstrap, Redux, Node.js, Express.js, Django, REST APIs, GraphQL, Langflow, Next.js

TOOLS / PLATFORMS
DATABASES

Git, VS Code, Google Colab, Docker, Postman, AWS
PostgreSQL, MySQL, MongoDB, Database Design, Query Optimization

PROJECTS / OPEN-SOURCE

AI POWERED MCQ GENERATOR QUIZEE React.js, Node.js, Express.js, Tailwind CSS, Gemini API, Cloud Deployment

Developed intelligent quiz generation platform creating 10000+ custom multiple choice questions. Integrated Gemini API for context-aware question generation with 92 percent relevance accuracy. Built responsive user interface with real-time question generation and instant feedback system. Deployed scalable architecture on Render Cloud supporting 500+ concurrent users daily. Reduced manual question creation time by 80 percent for educators and trainers.

MACHINE LEARNING SPECIES CLASSIFIER Python, Streamlit, Scikit-learn, Pandas, NumPy, Data Visualization

Built and deployed penguin species classification model achieving 95+ percent prediction accuracy. Implemented comprehensive data preprocessing pipeline with feature engineering and validation. Created interactive web interface using Streamlit receiving 1000+ user interactions monthly. Applied advanced machine learning algorithms including logistic regression and decision trees. Deployed model with real-time predictions and detailed performance metrics visualization.

POSTGRESQL AGENT | LINK Python,Langflow,Docker,Google Cloud,Ollama

Engineered intelligent PostgreSQL agent for ERP and data-centric applications using Python, Langflow, Docker, Google Cloud, and Ollama. Designed to interpret user requests, generate optimized SQL queries, and execute them to retrieve relevant database information. Integrated LLM-powered natural language descriptions for query results, enabling non-technical users to understand complex datasets effortlessly. Deployed in a containerized environment for scalability and cloud compatibility. Implemented robust error handling, query validation, and secure database access protocols to ensure reliability and data integrity.

CERTIFICATIONS

- IBM AI Engineering Professional Certificate - **COURSERA**
- Meta Frontend Developer Professional Certificate - **META**
- AWS Cloud Technology Consultant - **COURSERA**
- DeepLearning.AI TensorFlow Developer Certificate - **DEEPLARNING AI**
- Oracle Cloud AI Foundations Associate - **ORACLE**
- Applied Accelerated AI - **NPTEL(IIT MADRAS)**