

MUKUND PRASAD SINGH

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PROFILE STATEMENT

Dynamic and results-oriented Computer Science and Engineering professional with expertise in Machine Learning, Artificial Intelligence, Generative AI, Software Engineering, Web Development, Computer Graphics, and Data Analysis. Adept at delivering innovative and scalable solutions to complex challenges while ensuring efficiency and performance. Passionate about leveraging cutting-edge technologies to drive progress and create impactful user experiences.

EXPERIENCE

GAOTek Inc.

Apr '24 – Aug'24

Web developer

Dhaka, Bangladesh

- Managed the design and development of web pages, optimized front-end performance for improved user experience, and executed digital marketing strategies to boost user engagement.
- Delivered enhanced website responsiveness and user engagement by implementing front-end optimizations and targeted digital marketing campaigns. **increased system efficiency by 40%.**
- Utilized Wordpress, XAMP, css, Microsoft Team to ensure seamless deployment.

CODTECHIT Solutions

Aug '25 – Oct '15

UI/UX designer

Remote

- Collaborated with cross-functional teams to enhance user interfaces, resulting in improved user experience and increased engagement.
- Achieved a 40% reduction in bounce rates by increasing key landing pages for better sustainability.

TECHNICAL SKILLS

- Programming Languages:** Python, Java, C, Javascript
- AI & ML Tools:** PyTorch, TensorFlow, Keras, Scikit-learn, Seaborn, google.generativeai
- Web Development:** Flask, Flutter, MERN Stack, DJANGO
- Databases:** MySQL, MongoDB, Azure
- Other Expertise:** Git, Computer Graphics, Linux, Data Analysis, Web Scraping

EDUCATION

Brac University

OCT'21 – NOV'24

Bachelor of Science in Computer Science and Engineering, CGPA:3.55

Dhaka, Bangladesh

ACHIEVEMENTS

- Received a badge for Fundamentals of Azure AI Services.
- Received a badge for completing 5-Day Gen AI intensive from Kaggle.
- Solved 150 problems on LeetCode, showcasing problem-solving expertise.
- Certified from HackerRank in Problem Solving skills using Python language.
- Successfully completed the Transportation Data Science Project (TDSP) under Columbia University, and NEBDHub, gaining hands-on experience in data analytics, machine learning, and transportation optimization.

PROJECTS

RentEase Nepal | MongoDB, Express, Express.js, React.js, Node.js

JUL'24

- Developed a functional web application that connects property owners and tenants across Nepal. The platform allows users to register as house owners to list their properties or as tenants to search and rent accommodations. It also promotes local tourism by showcasing properties in various tourist destinations, helping travelers find short or long-term stays easily.
- Achieved seamless user registration and property listing functionality using MERN Stack technologies (MongoDB, Express.js, React.js, Node.js), enhancing user engagement and platform usability.

Stock Market Analysis | python with pandas, numpy, matplotlib, seaborn

Aug '23

- Built a stock prediction model to analyze financial data from various companies on Kaggle and predict whether purchasing a company's stock on a particular day would be beneficial.
- Contributed to stock trend prediction and investment decision logic using Python, Pandas, and scikit-learn on Kaggle-sourced company data.

Skin Care Solutions | *CSS, HTML, JavaScript, MYSQL*

Nov'23

- Developed a skincare recommendation platform where users can input their personal skin concerns (e.g., acne, scars, oily skin) and receive tailored product suggestions. The system identifies different skin issues and recommends suitable skincare products available in nearby beauty shops.
- Achieved seamless user registration and personalized product recommendation functionality by utilizing HTML, CSS, JavaScript, and MongoDB. This was implemented for the AI-powered skincare solution platform, where users can input their skin concerns (e.g., acne, scars, oily skin) and receive tailored product suggestions available in local beauty shops.

Advanced Machine Learning Methods for Chronic Kidney Disease Identification | *Random Forest*

May '24

- Chronic kidney disease is a type of disease which can't filter the blood as it does usual and can lead to damage of kidneys if proper treatment is not applied on time.
- Built a model that uses binary classification to quickly detect the presence of kidney disease. This tool helps individuals assess their kidney health before any disease manifests. Random Forest, Logistic regression, K-nearest neighbours, support vector machine and Kernel Naive Bayes.

LEADERSHIP / EXTRACURRICULAR

Aspire Institute(Affiliated by Harvard Business School)

Mar'05 – July '24

Aspire's Leaders Program

Online

- Prepared for leadership role in technologies, social impacts and global organization.
- Collaborated with a global network and worked on real world-challenges.

Information Management Leadership Program

Jan'14 – Mar'30

Nobel Learning PBC

Online

- Prepared leadership, troubleshooting internet, social impacts and global organization.
- Collaborated with a global network and worked on real world-challenges such as Plastic Waste Management.

Educational Youtube channel

July'05 – present

Content Creator

Online

- Created and uploaded educational videos on control theory and navigation of Robotics.
- Developed skills in video production, content strategy, and online engagement.

INTERESTS

- Exploring advancements in Reinforcement learning Vision-Language Models, and Generative AI.
- Mentoring aspiring professionals and contributing to open-source projects.
- Leveraging technology to enhance accessibility and inclusivity for people with disabilities.
- Advancing natural language processing (NLP) for sentiment analysis and misinformation detection.