VAIBHAV BAWEJA

New Delhi, India | vaibhavbwj9@gmail.com | 9582761559 | https://www.linkedin.com/in/vaibhavbaweja996/ | https://github.com/vaibhavbaweja7

Education

Master of Computer Applications — Jun 2023
Bharati Vidyapeeth Institute of Computer Applications & Management, GGSIPU – New Delhi, India — **GPA: 9.06**

Bachelor of Computer Applications — Jul 2020
Vivekananda Institute of Professional Studies, GGSIPU – New Delhi, India — **GPA: 8. 88**

Skills

Python, C++, HTML5, CSS, JavaScript, Node.js, Express.js, MongoDB, Machine Learning, Deep Learning, Agile, Software Development Life Cycle

Internships

Python Intern — Apr 2023 to Sep 2023
Siya Consulting Group – Gurugram, Haryana
- Enhanced forecasting model precision by 25% within a quarter, substantially refining budgetary accuracy & financial planning.
- Streamlined analytics workflows, achieving a 50% reduction in data analysis timeframes, from 4 weeks to a succinct 2-week period.
- Elevated forecast accuracy dramatically from 55% to 92% over a 6-month period, ensuring robust & reliable financial projections.
- Implemented 3+ machine learning algorithms, including logistic regression, decision trees, & XGBoost regressors, to optimize predictive accuracy in loan default scenarios.

Research Intern — Jun 2020 to Nov 2020
INMAS, DRDO – New Delhi, India
- Spearheaded the design & implementation of advanced deep learning models to interpret EEG data, utilizing Brain-Computer Interface (BCI) technology for enhanced data analysis & pattern recognition.
- Conducted in-depth analysis of scholarly articles & research findings in the fields of Cognitive Neuroscience, EEG data interpretation, & BCI applications, fostering a robust understanding of current trends & methodologies.
- Engaged in interdisciplinary projects that integrated principles of Cognitive Neuroscience with cutting-edge Machine Learning algorithms, contributing to advancements in Virtual Reality experiences & innovative game development initiatives.

Projects

SCG Internship Projects
- Engineered a robust transition matrix model to facilitate accurate prediction of financial outcomes in the initial project phase.
- Computed & analyzed Probability of Default (PD) metrics, integrating statistical methods to enhance risk assessment accuracy.
- Employed advanced regressors & diverse methodological approaches to quantify credit risk, ensuring comprehensive evaluation.

YelpCamp
- Spearheaded the development of YelpCamp, a web application, facilitating user registration & authentication to enable robust campground rating & reviewing capabilities.
- Engineered a comprehensive digital camp portal with intuitive navigation, implementing a seamless user interface design that supports campground bookings, reviews, & content management functions.
- Executed a full-stack project in synchronization with The Web Developer Bootcamp 2021 curriculum, guided by industry expert Colt Steele, to ensure adherence to modern web development standards.
- Deployed a multi-faceted technology stack including Node.js & Express.js to establish a solid back-end framework, contributing to the application's high performance & scalability.
- Integrated MongoDB (Cloud-Atlas) for cloud-based data storage solutions, enhancing the application's data retrieval efficiency.
- Leveraged Mongoose ODM to streamline communication between the app & the MongoDB database.
- Implemented EJS templating to construct a flexible & maintainable front-end architecture, facilitating rapid UI development & incorporated Cloudinary API for optimizing the application's asset-handling processes.
- Employed Joi for schema description & validation, enforcing a high standard of data integrity & security across user inputs.
- Integrated Passport.js for authenticated sessions, delivering a secure & personalized user experience through robust authorization.
- Leveraged Multer middleware for efficient handling of multipart/form-data, particularly file uploads, Connect middleware to ensure seamless integration of third-party services & Dotenv for environment variable management.
- Enforced data hygiene & security best practices by incorporating sanitization processes, protecting the application from common security vulnerabilities such as XSS attacks.

Achievements

- Achieved a competitive LeetCode rating of 1430, demonstrating advanced proficiency in data structures, algorithms & programming.
- Selected in the student delegation representing the institution in an international exchange program in Sweden, enhancing cross cultural collaboration skills.
- Coordinated multiple hackathons throughout undergraduate & postgraduate tenure, fostering a community of innovation & technical skill development among peers.