MEET BHARATKUMAR SONI

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EDUCATION

University of Queensland July 2023 - June 2025
Master of Computer Science (Management); GPA: 6.313/7 *Brisbane, Queensland*
Relevant Coursework: Information Retrieval and Web Search, Computer Networks II, Machine Learning, Social Media Analytics, Data Mining, Cloud Computing, Concurrency: Theory and Practice, Advanced Database Systems, Advanced Topics in Security, Building Innovation Capability, Idea Management and Principles of Strategic Management.
Awards: Dean's Commendation for Academic Excellence (Final Semester)

Gujarat Technological University Jun 2018 - Jul 2022
Bachelor of Engineering in Information Technology; GPA: 9.15/10 *Gujarat, India*
Relevant Coursework: Data Structures, Analysis and Design of Algorithms, Software Engineering, Software Project Management, Computer Networks, Big Data Analytics, Data Science, Computer Vision and Blockchain.

SKILLS

Languages:	C, C++, Java, Python, JavaScript, SQL, HTML, CSS
Frameworks:	Angular, Django
Libraries:	NumPy, Pandas, Matplotlib, Scikit-learn, PyTorch, TensorFlow
Platforms and Tools:	Android Studio, Google Cloud Platform, JIRA, Confluence, Github, Docker, Figma, Postman, JMeter, Kubernetes, TestCafe
DataBase:	MySQL, MongoDB, Postgres

EXPERIENCE

Crest Data Jan 2022 - Jun 2023
Software Test Engineer *Gujarat, India*

- Worked on QA initiatives for both an influencer marketing platform and a resource planning web application by designing and executing a comprehensive test strategy, developing over 300 automated test cases with TestCafe and achieving up to 85% test coverage, which reduced post-release defects by 42%.
- Conducted thorough manual testing and exploratory validation across key features and integrations, uncovering over 40 critical defects that contributed to a 25% reduction in customer-reported issues and ensured a robust user experience.
- Integrated automated UI tests with CI/CD pipelines via Git, slashing manual regression testing time by 40% and accelerating release cycles by 15%.
- Conducted thorough API testing using Postman and load testing with JMeter to identify and resolve critical bottlenecks, improving API response times by 40% and reducing high-severity production bugs.
- Streamlined test management and documentation, enhancing cross-functional collaboration, reducing bug-fix turnaround times by 20%, and introducing BDD-style acceptance tests to clarify requirements across teams.
- Collaborated in Agile/Scrum by participating in stand-ups, sprint planning, and retrospectives to align QA with development goals and foster teamwork.

Bhaskaracharya Institute for Space Applications and Geoinformatics May 2021 - Aug 2021
Software Developer Intern *Gujarat, India*

- Developed a Python-based face recognition attendance system using OpenCV and face recognition libraries, paired with a PostgreSQL-backed data management solution that auto-generates dynamic Excel reports per lecture—cutting manual attendance processing time by 40% and boosting data-processing efficiency by 30%.
- Implemented an Angular front end with distinct super-admin, admin, and user sections, seamlessly integrated with back-end services to provide a cohesive, role-based interface.

PROJECTS

Prompt2Packet: In-Context Learning for End-to-End Packet Generation | *Master's Research Project*

- Designed and implemented Prompt2Packet, a pure prompt-engineering framework that leverages state-of-the-art LLMs (ChatGPT, Claude, Gemini, Grok) to generate fully RFC-compliant IPv4, ICMP and ARP packet headers using zero-shot, one-shot and five-shot paradigms.
- Built a reproducible evaluation pipeline in Docker (Ubuntu 22.04) with Mininet and tcpdump to capture real traffic, converted to JSON via Wireshark, and validated model outputs against a ground-truth schema.
- Demonstrated up to 100% checksum accuracy and near-perfect semantic field inference without any model fine-tuning, highlighting LLMs' capabilities for automated network-traffic synthesis and protocol reasoning.

Machine Learning : Gender Classification of Drosophila Using Morphological Traits | *Python, Pandas, NumPy, scikit-learn and Matplotlib*

- Developed a predictive classification model using the drosophila dataset to classify individual's genders based on morphological measurements.
- Performed extensive Exploratory Data Analysis (EDA) to identify key morphological traits with significant predictive power for gender determination.
- Implemented comprehensive data pre-processing pipeline including handling missing values, feature engineering, and dimensionality reduction with Principal Component Analysis (PCA).
- Engineered and optimized three different classification models (Logistic Regression, Random Forest, KNN) with cross-validation and hyperparameter tuning.
- Achieved 92% classification accuracy using KNN with PCA, outperforming baseline models while reducing feature dimensionality by 70%.

AutoProof - Vehicle History Management System | *Hardhat, Solidity, OpenZeppelin, React, Web3.js, MetaMask and IPFS*

- Architected and implemented a proof-of-concept DApp on Ethereum (Hardhat, Solidity, OpenZeppelin) that mints each vehicle as an ERC-721 NFT, anchoring VIN, PPSR status, service logs, accident history and ownership transfers in an immutable ledger.
- Developed four modular smart contracts (CarNFT, ServiceHistory, OwnershipTransfer, TransactionManager) with full MetaMask integration to handle registration, service recording, multi-stage ownership hand-offs, escrow deposits and sale cancellations—all via on-chain events and UI listeners.
- Built a responsive web interface (React + Web3.js) to simulate end-user flows, capturing live transactions with sequence diagrams and ensuring transparent access for buyers, mechanics, insurers and regulators.

LEADERSHIP/EXTRA-CURRICULARS

- Managed executive board of 10 members and ran weekly meetings to oversee progress in essential parts of a chapter for Computer Society of India Student Club.
- Led mentorship initiatives that empowered junior students to develop real-world applications, enhancing their technical skills and fostering a culture of innovation through hands-on coding workshops and collaborative project sessions.
- HackWithInfy (Hackathon Organised By Infosys) - In the Top 1000 across India and got the pre-placement opportunity from Infosys.
- Actively participated in UQ Computing Society events and hackathons, collaborating with peers to develop innovative solutions and enhance technical skills in competitive environments.
- Participated in tech symposiums and seminars hosted by tech societies in Brisbane, contributing to discussions on emerging technologies and industry trends.