Soumil Kothari

Charlotte, NC | (980) 245-0178 | kotharisoumil@gmail.com | linkedin.com/in/soumil-kothari | github.com/kotharisoumil

EDUCATION:

University of North Carolina at Charlotte | May 2026
Bachelor of Science in Computer Science + Data Science | Concentration: AI, Robotics & Gaming GPA: 3.80
Achievements: Chancellor's Scholar, CCI Chancellor's List, IB Diploma in Business Management
Relevant Coursework: Computer / Data Science, Data Structures & Algorithms, Software Engineering, AI / Machine Learning, Data Mining

TECHNICAL SKILLS:

Computational Languages: Python, SQL, Java, JavaScript, CSS, HTML, C/C#, SAS
Proficiency: AWS Cloud, Azure Databricks, Git/GitHub, Tableau, Toad, Oracle Live SQL, MongoDB, Unity, Microsoft Suite, Google Suite
Certifications: AWS Cloud Practitioner (In Progress), Microsoft Azure (In Progress), Truist Emerging Leaders
Frameworks: PySpark, NumPy, Pandas, MatPlotLib, Sodapy, Scikit-learn, Seaborn, FastAPI, Random Forest, JUnit, Node.js, React
Verbal Languages: English, German (Standard), German (Swiss), Gujarati, Hindi, French

WORK EXPERIENCE:

Deloitte Consulting LLP

Data Engineering & AI Summer Scholar Intern | Charlotte, NC Jun 2025 – Jul 2025

- Improved production workflow monitoring on cloud for General Motors Financial, working with SQL, Azure, and learning Snowflake to raise pipeline success by 15% & reducing resolution time by 20%.
- Validated Oracle-to-Azure Databricks data loads in a Medallion Architecture, ensuring 100% accuracy and reducing errors by 25%.
- Developed a PySpark lineage tracker for the client's data table dependency, reducing mapping time 80% & accelerating analytics.

NinerStats - UNC Charlotte Volleyball Team

Data Analyst Intern | Charlotte, NC Aug 2024 – Dec 2024

- Analyzing game and player performance data to identify trends, optimize strategies, and enhance team decision-making.
- Developing and maintaining statistical models and visualizations to support coaching staff with data-driven insights.
- Collaborating with the team to provide real-time analytics and feedback during matches, improving player performance & planning.

University of North Carolina at Charlotte

College of Computing & Informatics Instructional Assistant | Charlotte, NC Aug 2024 – Present

- Leading lab sessions and supporting students in learning Python, algorithms, and problem-solving.
- Assisting in developing Python-based instructional materials, exercises, and assessments.
- Providing one-on-one and group tutoring to help students master Python, debugging, and computational thinking.

PROJECTS:

FC Basel Historical League Standings | *Python, MatPlotLib, Ipywidgets* In Progress

- Developed an interactive visualization tool to showcase FC Basel's historical performance and trends over multiple decades.
- Integrated dropdowns, tooltips, and filtering for dynamic analysis of match statistics. The goal is to convert everything into a database in which the data is stored, which can be later referenced in Python code.
- Used Python libraries for interactive visuals to explore win/loss projections and historical trends.

RePair – AI Home Assistant – HackNC 2025 (1st Lowe's, 1st ARM) | *Google Gemini 2.5, ARM, FastAPI, React* October 2025

- Built an AI-driven home assistant using Google Gemini 2.5, FastAPI, & React to extract & analyze structured insights from image data.
- Designed data pipelines and ML workflows on ARM-based infrastructure for real-time damage detection & contractor recommendation.
- Engineered a scalable backend system enabling multimodal data processing, voice analytics, and asynchronous API coordination.

NYC Complaints Analysis | *Python, NumPy, Pandas, Sodapy, Scikit-learn, Seaborn, XGBoost, Random Forest* April 2025

- Developed models on 40K+ NYC complaints, achieving 97% accuracy to classify complaint types for better resource allocation.
- Engineered features with a team to handle API changes & missing data, revealing faster resolutions & urging standardized tracking.
- Flagged geospatial data gaps, showing how preprocessing and model interpretability turn messy data into actionable strategies.

Sudoku CSP Solver | *Python, NumPy* April 2025

- Built a Sudoku solver using CSP & backtracking search, applying AI inference methods to solve both easy & expert puzzles efficiently.
- Designed heuristics-driven CSP models with variables and constraints to optimize search efficiency & demonstrate AI problem-solving.
- Implemented automated validation to ensure solution correctness across rows, columns, & sub-grids, reinforcing reliability of the solver.

STUDENT LEADERSHIP & INVOLVEMENT:

- Mentor in Charlotte's College of Computing and Informatics Mentorship Program
- Member of the Charlotte AI Research Organization
- Member of the Association of Data Science