CHETNA SATLA

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PROFESSIONAL SUMMARY

Data-driven engineering management graduate student with strong experience in HCM systems, machine learning, and cloud platforms. Seeking analytics-focused co-op roles to drive actionable insights

EDUCATION

Master of Engineering in Industrial Management | Engineering Management   **Exp. Grad.: May 2026**
University of Massachusetts, Amherst, MA, USA   GPA: 3.90
Bachelor of Engineering | Electronics & Telecommunication Engineering   **Aug 2018 – May 2022**
D. Y Patil School of Engineering   GPA: 3.94

TECHNICAL SKILLS & EXPERTISE

Languages: Python (Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn), R, SQL,
ML/AI: Machine Learning, Deep Learning, Scikit-learn, TensorFlow, Keras, Fast Formulae, OpenCV
Statistics: Regression, ANOVA, Hypothesis Testing, A/B Testing, Statistical Modeling
Cloud & DevOps: AWS, GCP, Azure, Docker, Kubernetes, GitHub, CI/CD (Jenkins), MLOps
Skills & Platforms: Power BI, Pandas, Jupyter Notebook, Data Analysis (Data Cleaning, Data Visualization, Data modelling)

EXPERIENCE

MASTEK ENTERPRISE SOLUTION | HCM CONSULTANT I   **Sep 2022 – Sep 2024**

- Delivered Oracle HCM solutions (Payroll, Absence, OTL) and owned full product lifecycle: requirements → user stories → testing → UAT → Go-live → Hypercare, reducing manual processing by 80% and errors by 70%.
- Configured end-to-end payroll flows (Calculate Payroll, Prepayment) for - UAE, Spain, and India Monthly/ Biweekly Cycle. Set up Payroll Elements including: Salary, Housing, Transportation, Overtime, Deduction, Leave Encashment, Employee/Employer Contribution more.
- Developed Fast Formula for complex earnings/deductions, including conditional eligibility and region-specific thresholds and automated payroll schedules with alerts and audit checkpoints delivering scalable payroll with 99.5% accuracy in payroll reconciliation.
- Configured absence plans (Annual, Sick, Maternity and Leave Without Pay) across multiple geographies with development of custom Fast Formula to handle complex accrual rules, carryover limits, and proration for mid-period hires and terminations.
- Implemented and optimized BPM approval workflows with conditional routing and escalation paths. Managed end-to-end data migration using HCM Data Loader (HDL) with validations and reconciliation reports and conducted end-to-end testing in collaboration with HR, Finance, and Global Payroll teams to validate balances, accrual accuracy, and downstream payroll integration.

MASTEK ENTERPRISE SOLUTION | ASSOCIATE CONSULTANT   **June 2022 – Aug 2022**

- Collaborated with cross-functional teams to enhance system efficiency and resolve 65% of issues within 24 hours.
- Conducted extensive data analysis, reporting, QA, and supported ongoing enhancements.
- Contributed to client deliverables through the creation of technical documentation, process flows, and user guides, while actively participating in client demos and knowledge transfer sessions.

LARSEN AND TOUBRO DEFENCE | SURAT | DATA ANALYST INTERN   **Dec 2021 – May 2022**

- Built and maintained ETL pipelines to automate data ingestion and transformation; collaborated with cross-functional teams to enhance pipeline performance and reliability
- Performed data cleaning, transformation, and validation; reduced inconsistencies by 20%.
- Developed interactive Power BI dashboards and SQL reports; supported leadership in real-time decision-making and performance monitoring.

PROJECTS

Adaptive Constraint-Aware AutoML (ACAML) Web Application
Technologies: Python, Streamlit, FLAML, SHAP, Scikit-learn, Pandas, NumPy, Matplotlib

- Developed a dynamic AutoML web application enabling users to upload datasets, select target variables, and automatically train optimal models within specified time constraints.
- Implemented intelligent task detection to differentiate between regression and classification problems based on target variable characteristics.
- Leveraged FLAML for automated model selection and hyperparameter tuning, handling missing values, achieving a 93.33% R^2 score using ExtraTreesEstimator on car price prediction tasks.
- Integrated SHAP for model interpretability, providing visual insights into feature importance, encoding categorical variables and enhancing model transparency.
- Designed a user-centric interface with Streamlit, featuring modular tabs for data upload, model results, and explainability, facilitating seamless user interaction.

Wildfire Prediction & Analysis using Machine Learning

Technologies: Python, data analysis, Machine Learning, Data Visualization, Statistical Modeling, Cloud Computing (AWS/GCP), Agile

- Conducted large-scale data analysis (74,605 data) and Leveraged data visualization (Matplotlib, Seaborn) to present insights and predictions.
- Built end-to-end machine learning pipelines for classification, regression and anomaly detection to predict and detect incidents.
- Designed data preprocessing workflows, including data cleaning, feature selection and Implemented cloud-based model deployment
- (AWS/GCP) for real-time prediction.

Demand Prediction | Data Analytics Project

Technologies: R, Python, Excel, Regression, ANOVA

- Built predictive models to forecast rental demand using multivariate regression on time and weather variables.
- Applied statistical tests (t-tests, ANOVA) and feature engineering to improve model accuracy by 25%.
- Delivered insights to optimize fleet distribution and demand forecasting for smart city mobility.

PUBLICATIONS

EMOJIFY: Create your own emoji with deep learning

Published research on Real time Face detection and recognition system based on Deep Learning and CNN architecture. The developed system produced promising results, with an accuracy of 95.71% and a false positive rate of 0.09.

Link- *Emojify: Create Your Own Emoji with Deep Learning*. International Journal of Innovative Research in Technology (IJIRT), Vol. 11, Issue 5.

LEADERSHIP OPPORTUNITIES

NSS (National Service Scheme)

- Engaged in Different community service initiatives like AIDS awareness, afforestation, blood donation camps, cleanliness of our environment and disaster management.

Freelancing

- Helped Organizations leverage their operations with Project Management, Web development, content writing.
- Copywriting, marketing, Sales copy. https://chetnasatla18.wixsite.com/chetna-satla

Volunteering For Non-Profits

- Part of Field Visits and Research for betterment of tribal community with sustainable development to conserve their unique heritage. Volunteered for Various Community Services like Food Distribution, Books distribution, Cupcakes drive, Winter Blanket distribution and more.

Badminton University Level

- Runner-up for badminton Tournament single at university level.

I hereby declare that the details furnished above are true and to the best of my knowledge. I bear the responsibility of correctness of the mentioned particulars if any.

Name: Chetna Satla