NIRANJAN BHOSAREKAR

Natick, MA

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SUMMARY

- Data scientist skilled in Statistics, Machine Learning, Natural Language Processing and Deep Learning.
- Strong proficiency in building and leveraging statistical and mathematical models to solve business problems.
- Enhancing ROI by 40%, generating over $1M in yearly savings and reducing manual effort hours by up to 75%.
- Exceptional collaboration with business stakeholders, managing agile projects, and ensuring on-time delivery.

EXPERIENCE

Business Intelligence Knowledge Engineer August 2014 – Present

Mass General Brigham Health Plan, Somerville, MA

- Leading strategic data science initiatives with ethical AI to optimize operations and achieve revenue growth.
- Architecting end-to-end data solutions, including ETL pipelines, time-series forecasting, document classification, statistical indexing, predictive modeling, data association mining, fraud detection and recommendation systems.
- Improving efficiency and accuracy across cross-functional business workflows.
- Mentoring and guiding data scientists, enforcing data quality standards.
- Designing self-service PowerBI dashboards for executive tracking of critical areas.

Software Engineer August 2013 – May 2014

SmarterTravel, Boston, MA

- Applied revenue metrics to Search Engine Marketing (SEM) advertising strategies, driving a 15% revenue increase.
- Proposed Search Engine Optimization (SEO) keywords, raising profitability by $1.5K monthly.

Analytics Engineer May 2011 – July 2013

Nokia, Cambridge, MA

- Architected analytics back-end for cloud-based content store providing scalable data processing.
- Programmed data flows with Java, Hadoop, MapReduce, and Hive for large-scale datasets.
- Transformed KPI reporting into self-service for real-time data insights and user engagement.
- Implemented a Mahout-based recommendation system for personalized content suggestions.

Researcher December 2010 – May 2011

BlueAlly LLC, Vienna, VA

- Developed a media content recommendation system for 'Comcast', improving user engagement.
- Analyzed and tested movie and TV show datasets in 131 markets for precise content recommendations.
- Utilized Hadoop and Mahout for collaborative filtering systems, personalizing content suggestions.

EDUCATION

Master of Science in Computer Science (GPA: 3.71) August 2010

University of Maryland Baltimore County, Baltimore, MD

- **Thesis:** Prediction of Oscar Award Nominations Based on Movie Scripts

Bachelor of Engineering in Computer Engineering (Passing Class: First Class with Distinction) August 2006

Savitribai Phule Pune University, India

SKILLS

Python, SQL, Git, PySpark, Databricks, Hadoop, FastApi, Fast.ai, Keras, PyTorch, Jupyter, Hugging Face Transformers, Encoders, Decoders, Embedding Vectors, AWS Cloud Practitioner Essentials, Azure, PowerBI

PUBLICATION

A Probabilistic Definition of Item Similarity October 2011

5TH ACM Conference on Recommender Systems, Chicago, IL

PROGRAMMING SAMPLES

Language model web app	Association mining web app	Naïve bayes prediction
PySpark association mining	Medical charts statistical indexer	Neural network classification
PySpark data manipulation	Neural network prediction	Time series forecasting